

Curriculum Vitae

Alex Mihailidis
Ph.D. P.Eng.

A. Date Curriculum Vitae is Prepared: 2014 August 20

B. Biographical Information

Primary Office	160-500 University Avenue Department of Occupational Science & Occupational Therapy Toronto, Ontario, Canada M5G 1V7
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1. EDUCATION

Degrees

1998 - 2002	PhD, Rehabilitation Engineering, Bioengineering Unit (Rehabilitation Engineering), University of Strathclyde, Glasgow, United Kingdom, Supervisor(s): Dr. J.C. Barbenel
1996 - 1998	M.A.Sc. Biomaterials and Biomedical Engineering, Inst. of, University of Toronto, Toronto, Ontario, Canada, Supervisor(s): Dr. G. Fernie
1992 - 1996	B.A.Sc. Mechanical and Industrial Eng. University of Toronto, Toronto, Ontario, Canada

Postgraduate, Research and Specialty Training

2002 - 2003	Post-doctoral Fellow, Gerontology Research Centre, Faculty of Arts and Science, Simon Fraser University, British Columbia, Canada, Supervisor(s): Dr. G. Gutman
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Qualifications, Certifications and Licenses

Professional Engineer, Professional Engineers Ontario, Ontario, Canada, License / Membership #: 90493057

2. EMPLOYMENT

Current Appointments

2014 Jan - present	Site Lead, Toronto Rehabilitation Institute, Canadian Partnership for Stroke Recovery (CPSR), Toronto, Ontario, Canada
2011 - present	Adjunct Associate Professor, Faculty of Rehabilitation Sciences, University of Alberta, Edmonton, Alberta, Canada
2011 - present	Graduate Coordinator, Clinical Engineering Program, Faculty of Medicine, University of

Alex MIHAILIDIS

Toronto, Toronto, Ontario, Canada

2011 - present Affiliate Scientist, Research, Glenrose Rehabilitation Hospital, Alberta, Canada

2010 - present Barbara G. Stymiest Chair in Rehabilitation Technology Research, Faculty of Medicine, Toronto Rehabilitation Institute / University of Toronto, Toronto, Ontario, Canada

2010 - present Associate Professor (Secondary appointment, 0.49FTE), Biomaterials and Biomedical Engineering, Inst. of, Medicine / Engineering, University of Toronto, Toronto, Ontario, Canada

2009 Jul 1 - present Associate Professor (Primary appointment, 0.51FTE), Occupational Science and Occupational Therapy, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2005 - present Full Member, Graduate Studies, University of Toronto, Toronto, Ontario, Canada

2005 - present Full Member, Rehabilitation Science (Graduate), Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2004 - present Associate Scientist, Clinical Integrative Biology Unit (CIB), Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

2004 - present Assistant Professor, Graduate Department, Computer Science, Arts and Science, University of Toronto, Toronto, Ontario, Canada

2003 - present Mentor / Faculty, Healthcare, Technology and Place Research and Training Initiative

2002 - present Adjunct Professor, Gerontology Program, Faculty of Arts and Science, Simon Fraser University, British Columbia, Canada

Previous Appointments

RESEARCH

2004 - 2011 Mar Scientist, Toronto Rehabilitation Institute, Toronto, Ontario, Canada

1996 - 2002 Research Assistant (Contract), Centre for Studies in Aging, Sunnybrook and Women's College Health Sciences Centre, Toronto, Ontario, Canada

UNIVERSITY

2014 Jan 1 - 2014 Jul 1 Acting Chair, Occupational Science and Occupational Therapy, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2011 - 2012 Visiting Professor, Coleman Institute of Cognitive Disabilities and Technology, University of Colorado, Colorado, United States

2003 - 2005 Associate Member, Graduate Studies, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2003 - 2005 Associate Member, Rehabilitation Science (Graduate), Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

UNIVERSITY - CROSS APPOINTMENT

2003 - 2010 Assistant Professor, Biomaterials and Biomedical Engineering, Inst. of, Applied Sciences, University of Toronto, Toronto, Ontario, Canada

UNIVERSITY - RANK

2003 - 2009 Assistant Professor, Occupational Science and Occupational Therapy, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2002 - 2003 Assistant Professor (Limited term), School of Engineering Science, Faculty of Applied Sciences, Simon Fraser University, British Columbia, Canada

INDUSTRIAL EXPERIENCE

1996 Maintenance Engineer, Ajax Trim Plant, Daimler Chrysler Canada

1995 Junior Systems Engineer, Advanced Technology Systems Group, Spar Aerospace Limited

1994 Junior Structural Engineer, Advanced Technology Systems Group, Spar Aerospace Limited

3. HONOURS AND CAREER AWARDS

Distinctions and Research Awards

INTERNATIONAL

Received

- 2014 Jul **Fellow**, RESNA (Rehabilitation Engineering and Assistive Technology Society of North America). (Distinction)
Being named a RESNA Fellow is one of the highest awards that could be received in the field.
- 2013 Mar **Keynote Speaker**, Centre on Aging and Health 2012-2013 Distinguished Lecture. (Invited Distinguished Lecturer)
- 2013 Feb **Keynote Speaker**, Symposium on Special Seating, Wheeled Mobility, and Advanced Technology. (Invited Keynote Speaker)
- 2012 Feb **Keynote Speaker**, International Occupational Therapy Conference, Hong Kong Institute of Occupational Therapy. (Invited Keynote Speaker)
- 2011 Sep **Keynote Speaker**, Global Research Alzheimer Summit. (Invited Keynote Speaker)
- 2011 Aug **Keynote Speaker**, MARS (Machines Assisting Recovery from Stroke) 2011 Annual Meeting. (Invited Keynote Speaker)
- 2009 May **Scott Named Professor Lectureship**, Mayo Clinic. (Distinction)
May 22, 2009.
- 2009 **Best Paper Award**, Assisted Cognition Workshop, The 2009 International Joint Conference on Artificial Intelligence, Pasadena, California, United States. (Distinction)
Total Amount: 2,500 USD
- 2008 **2008 Imaging Solutions of the Year – The COACH Prompting System**, Advanced Imaging. (Distinction)
- 2007 Mar **Best Paper Award**, The 5th International Conference on Computer Vision Systems, Bielefeld University, Germany. (Distinction)
- 2006 Nov **Fellowship**, Japan Foundation for Aging and Health, Japan. (Distinction)
Invitation to give a series of lectures and meetings on “Technology and Dementia” by the Department of Assistive Technology, National Rehabilitation Center for the Disabled, Japan.
- 2005 **Certificate of Appreciation**, Rehabilitation Engineering and Assistive Technology Society of North America (RESNA). (Distinction)
Awarded for Service to RESNA as SIG (Special Interest Group) Chair.
- 2005 **Contest Winner (Phase One)**, CanestaVision™. (Distinction)
Innovative Application of Canesta’s electronic perception technology, “Wheelchair collision avoidance using 3D sensors” (\$7,500 USD In-kind prize). Total Amount: 7,500 USD
- 2005 **Grand Prize Winner (Phase Two)**, CanestaVision™. (Distinction)
Innovative Application of Canesta’s electronic perception technology, “Wheelchair collision avoidance using 3D sensors”. Total Amount: 10,000 USD
- 2005 **Nominated and Awarded Full Membership**, Sigma Xi, The Scientific Research Society. (Distinction)
- 2004 **Certificate of Appreciation**, Rehabilitation Engineering and Assistive Technology Society of North America (RESNA). (Distinction)
Awarded for Service to RESNA and the field of Assistive Technology.

NATIONAL

Received

- 2009 **Invited Presenter**, University of Toronto / Industry Canada. (Distinction)
Invited to present on behalf of University of Toronto to Industry Canada on "Wireless Technologies in Healthcare".
- 2007 Sep **Invited Participant**, Canadian Institutes of Health Research, Ottawa, Ontario, Canada. (Distinction)
Invitation to participate in the CIHR Institute of Aging National Roundtable on Mobility in Aging.
- 2006 Sep **Invited Participant**, Canadian Institutes of Health Research, Ottawa, Ontario, Canada. (Distinction)
Invitation to participate in the CIHR Institute of Aging National Roundtable on Mobility in Aging, September 21, 2006.
- 2006 **Invited speaker and workshop attendee**, Universite du Montreal, Montreal, Quebec, Canada. (Distinction)
"Shaping the Future of Health Innovation Research in Canada".
- 2002 - 2004 **Post-doctoral Training Award**, Alzheimer Society of Canada / CIHR Institute of Aging. (Distinction)
\$38,500 / year [note: terminated 09/30/03 to take full time faculty appointment].
- 2002 **Invited Participant**, Canadian Institutes of Health Research, Toronto, Ontario, Canada. (Distinction)
Invitation to participate in the CIHR Canadian Mobility Consensus Workshop.
- 2001 - 2002 **Doctoral Training Award (renewal)**, Alzheimer Society of Canada. (Distinction)
\$19,030 / year.
- 1999 - 2001 **Doctoral Training Award**, Alzheimer Society of Canada. (Distinction)
\$15,858 / year.

Nominated

- 2008 **Nominee**, Canada's Top 40 Under 40. (Distinction)

PROVINCIAL / REGIONAL

Received

- 2011 Jul **Invited Member**, Ontario Long Term Care Association. (Distinction)
Expert Panel on the Future of Long Term Care in Ontario.
- 2009 **Selected Exhibitor**, Celebrating Innovations in Healthcare Expo, Ontario Ministry of Health and Long-term Care. (Distinction)
- 2008 **Selected one of the top five "local innovators" in Toronto**, Toronto Star, Toronto, Ontario, Canada. (Distinction)
- 2007 Dec **COACH Prompting System—Top 20 Science & Medicine Stories of the Year**, The Toronto Star, Toronto, Ontario, Canada. (Distinction)
December 29, 2007.
- 2002 **Invited Exhibition**, The Festival of Ontario. (Distinction)
Invitation to exhibit research for H.R.H. Queen Elizabeth II, as part of the Festival of Ontario celebrating the Queen's Jubilee.

Nominated

2008 **Innovation Award Finalist**, Celebrating Innovations in Healthcare Expo, Ontario Ministry of Health and Long-term Care, Ontario, Canada. (Distinction)
Top 3 finalists from approximately 400 entries.

LOCAL

Received

2012 Jun **Excellence in Peer Mentorship**, Department of Occupational Science & Occupational Therapy. (Distinction)

2010 **Barbara G. Stymiest Research Chair in Rehabilitation Technology**, Toronto Rehabilitation Institute/University of Toronto, Toronto, Ontario, Canada. (Distinction)
\$100,000/year.

2009 **Selected Exhibitor**, MaRS Discovery District, Toronto, Ontario, Canada. (Distinction)
Business of Aging Innovation Conference [only academic group selected to participate].

2006 **Research Award for Innovation, Department of Occupational Science & Occupational Therapy**, University of Toronto, Toronto, Ontario, Canada. (Research Award)

2005 **Invited Keynote Speaker**, KLARU Annual Conference, Baycrest Centre for Geriatric Care, Toronto, Ontario, Canada. (Distinction)

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Associations

Member, Association of Computing Machinery, SIGCHI
Member, Association of Professional Engineers Ontario
Past Member, Canadian Association of Occupational Therapists
Member, Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)
Full Member, Sigma Xi – The Scientific Research Society

Administrative Activities

INTERNATIONAL

2008 International Conference on Smart Homes and Health Telematics (ICOST)

2007 - 2008 **Member**, Program Committee (Conference: July, 2008), Ames, Iowa, United States.

2011 RESNA/ICTA Conference

2009 - 2011 **Co-Chair**, (Conference: June, 2011), Toronto, Ontario, Canada.

2nd International Symposium on Ambient Intelligence

2010 - 2011 **Member**, Program Committee Member (Symposium: April, 2011), Salamanca, Spain.

AAAI (Association for the Advancement of Artificial Intelligence)

2012 Jan - present Program Committee Member, Arlington, Virginia, United States.

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American Alzheimer Association

2006 - present **Member**, Working Group on Technology, ETAC Program

American Alzheimer Association / ISTAART

2011 Jun - present **Chair**, Professional Interest Area on Technology, Chicago, Illinois, United States.

BodyNETS Conference

2007 - 2008 **Member**, Program Committee (Conference: March, 2008), Tempe, Arizona, United States.

Fifth International Conference on Smart Homes and Health Telematics (ICOST 2007)

2007 **Member**, Program Committee (Conference: May, 2007), Japan.

Fourth International Conference on Smart Homes and Health Telematics (ICOST 2006)

2005 - 2006 **Member**, Program Committee (Conference: July, 2006), Belfast, Northern Ireland, United Kingdom.

IEEE PerCom Workshop on Smart Environments

2014 Aug - present Program Committee Member, St. Louis, Missouri, United States.

International Association of Science and Technology for Development (IASTED)

2010 - 2011 **Member**, International Program Committee, IASTED Conference on Imaging and Signal Processing in Healthcare and Technology. May, 2011, Washington, D.C. United States.

2007 - 2008 **Member**, International Program Committee, the IASTED International Conference on Assistive Technologies. April, 2008, Baltimore, Maryland, United States.

International Conference on Intelligent Environments

2009 **Member**, Program Committee, The 1st International Workshop on Intelligent Environments Supporting Healthcare and Well-Being (WISHWell'09), Barcelona, Spain.

International Conference on Technology and Aging

2001 **Member**, Steering and Local Arrangements Committees, Toronto, Ontario, Canada.

International Joint Conference on Artificial Intelligence (IJCAI)

2009 **Member**, Program Committee, Assisted Cognition Workshop, Pasadena, California, United States.

International Medical Informatics Association Working Group on Smart Homes and Ambient Living

2006 - present **Member**, Steering Committee

International Society of Gerontechnology

2010 - 2012 **Member**, Scientific Committee, The International Society of Gerontechnology Conference, June, 2012, Eindhoven, Netherlands.

Pervasive Health Conference 2012

2011 - present **Co-Chair**, Technical Program Committee

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Pervasive Technologies Related to Assistive Environment (PETRA) Conference

2007 - 2008 **Member**, Program Committee (Conference: August, 2008), Athens, Greece.

Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)

2012 - present **President**, President (elected)
2010 - present **Chair**, By-Laws Committee
2010 - present **Member**, Finance Committee
2009 - present **Member**, Research Committee
2009 - present **Member**, Board of Directors (elected)
2008 - present **Member**, Ethics Committee
2006 - present **Member**, Membership Committee
2005 - present **Member**, Long-term Planning Committee
2010 Jul **Chair**, Student Scientific Paper Committee, RESNA Annual Conference, Las Vegas, Nevada, United States.
2010 - 2012 **President-Elect**, President-Elect
2008 - 2009 **Appointed Member**, Board of Directors
2006 - 2009 **Chair**, Special Interest Groups (SIG) Committee [appointed by RESNA President]
2004 **Topic Coordinator**, Technology for Cognitive and Sensory Impairments, RESNA 2004 Annual Conference, Orlando, Florida, United States.
2003 **Co-Chair**, Colin McLaurin International Exchange, RESNA 2003 Annual Conference, Atlanta, Georgia, United States.
2002 - 2006 **Co-Chair**, Canada Committee
2002 **Topic Coordinator**, Technology for Special Populations, RESNA 25th International Conference, Minneapolis, Minnesota, United States.
2001 **Topic Coordinator**, Technology for Special Populations, RESNA 2001 Annual Conference, Reno, Nevada, United States.
2000 - 2006 **Co-Chair**, Cognitive Disability and Technology Special Interest Group

RehabTech Asia

2012 Jan - present Invited Member, International Advisory Committee

The 28th Annual CHI Conference on Human Factors in Computing Systems

2010 Apr 10 - 2010 Apr 11 **Member**, Steering Committee, WISH – Workshop on Interactive Systems for Healthcare, Atlanta, Georgia, United States.

The 2nd International Conference on Pervasive Computing Technologies for Healthcare

2007 **Member**, Program Committee

The 2nd International Conference on Technology and Aging

2004 - 2007 **Chair**, (Conference: June 16-19, 2007), Toronto, Ontario, Canada.

The 2nd International Workshop on Intelligent Environments Supporting Healthcare and Well-being

2010 Jul **Member**, Program Committee, Kuala Lumpur, Malaysia.

The 3rd International Conference on Pervasive Computing Technologies for Healthcare 2009

2008 - 2009 **Member**, Program Committee, London, England, United Kingdom.

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The 4th IET International Conference on Intelligent Environments

2007 - 2008 **Member**, Program Committee (Conference: July, 2008), Seattle, Washington, United States.

The 4th International Conference on Pervasive Computing Technologies for Healthcare 2010

2010 **Member**, Program Committee

The 8th International Conference on Intelligent Environments

2011 Sep - present Area Promotion Co-Chair, Telecare and eHealth, Guanajuato, Mexico.

Third International Conference on Smart Homes and Health Telematics (ICOST 2005)

2005 **Member**, Scientific Program Committee (Conference: July 4-6, 2005), Sherbrooke, Quebec, Canada.

Third International Symposium on Smart Homes

2008 Dec **Co-Chair**, Program Committee, Hainan, China.

UbiHealth 2003: The 2nd International Workshop on Ubiquitous Computing for Pervasive Healthcare Applications

2003 **Co-Chair**, Seattle, Washington, United States.

WISDEM: Understanding Dementia, Improving Quality of Life Network

2011 - present Invited Member, Global Scientific Committee, Spain.

Workshop on Motion and Vital Data Acquisition, Storage and Trends for Older Adults

2011 - present **Member, International Organizing Committee**, Israel CODATA National Committee, Israel.

World Congress on Medical Physics and Biomedical Engineering 2003 Conference

2003 **Topic Coordinator**, Technology for Cognitive Rehabilitation, Sydney, Australia.

NATIONAL

CIHR Institute of Aging

2012 Jul - 2015 Jun International Advisory Board, Canada.

Heart & Stroke Foundation Centre for Stroke Recovery

2013 Jan **Associate Member**, Canada.

Synthetic Imaging Research Inc Mobility Grand Challenge

2011 - present **Member**, Advisory Board, Toronto, Ontario, Canada.

The Design Exchange and the Ministry of Citizenship and Immigration

2004 - present **Member**, Technical Advisory Committee, Universal Design Professional Development Series

PROVINCIAL / REGIONAL

Medical Devices Industry Cluster of British Columbia

2002 **Member**, British Columbia, Canada.

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Ministry of Health and Long-Term Care

2008 - present **Invited Member**, Expert Panel on Aging in the Community, Toronto, Ontario, Canada.

Ontario Caregiver Coalition

2012 Nov 1 Research, Committee, Toronto, Ontario, Canada.

Ontario Council of University Programs in Rehabilitation Sciences (OCUPRS)

2014 Jan - 2014 Jul **Member**, Member, Ontario, Canada.

Ontario Long Term Care Association (OLTCA)

2011 Jul Expert Panel on the Future of Long-Term Care, Toronto, Ontario, Canada.

Sheridan College

2004 - present **Member**, Professional Advisory Committee, Designing for an Aging Population Design Program

LOCAL

Other Organizations

2011 Jul - present Engineering Graduate Education Committee, Faculty of Applied Science and Engineering, Office of the Vice-Deans, Graduate Studies and Research, Graduate Education, Ontario, Canada.

2011 Jul - present Graduate Coordinator, Clinical Engineering Program, Faculty of Medicine, Inst of Biomaterials & Biomedical Engineering, Clinical Engineering, Graduate Education, Toronto, Ontario, Canada.

Health Care, Technology & Place (HCTP)

2003 **Member**, HCTP Workshop Organizing Committee, Toronto, Ontario, Canada.

Intelligent Computation in Assistive Systems and Technology (iCAST) Working Group

2007 - 2011 **Co-Founder**, Toronto, Ontario, Canada.

2007 - 2011 **Member**, Steering Committee, Toronto, Ontario, Canada.

Simon Fraser University

2003 **Member**, Undergraduate Curriculum Committee, School of Engineering Science, Gerontology and School of Engineering Science, Undergraduate Education, British Columbia, Canada.

2002 - 2004 **Member**, Dr. Tong Louie Laboratory Steering Committee, Gerontology Research Centre, Gerontology and School of Engineering Science, British Columbia, Canada.

Toronto Rehabilitation Institute

2011 Apr - present Research Advisory Committee, Toronto, Ontario, Canada.

2004 - present **Member**, Peer Review Sub-committee, Toronto, Ontario, Canada.

University of Toronto

2012 Jan - present Member, Steering Committee, Faculty of Medicine, Collaborative Program in Resuscitation Sciences, Faculty of Medicine, Graduate Education, Ontario, Canada.

2009 - present **Member**, Steering Committee, NSERC CREATE-CARE Program, Institute of Biomaterials

- and Biomedical Engineering, Toronto, Ontario, Canada.
- 2004 - present **Member**, Occupational Performance Laboratory Sub-Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, Council of Health Sciences Education Subcommittee, Faculty of Medicine, Faculty of Medicine, Graduate Education, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, Council of Health Sciences, Faculty of Medicine, Faculty of Medicine, Graduate Education, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, University Partnership for Academic Rehabilitation, Faculty of Medicine, Faculty of Medicine, Graduate Education, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, All Chairs Committee, Faculty of Medicine, Faculty of Medicine, Graduate Education, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, PDAD&C Committee, Faculty of Medicine, Faculty of Medicine, Multilevel Education, Ontario, Canada.
- 2014 Jan - 2014 Jul **Member**, Faculty Council, Faculty of Medicine, Multilevel Education, Ontario, Canada.
- 2013 **Chair**, Chair, PTR Review Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2010 **Member**, Sub-Committee, IBBME Clinical Engineering Committee, Institute of Biomaterials and Biomedical Engineering, Faculty of Medicine, Inst of Biomaterials & Biomedical Engineering, Toronto, Ontario, Canada.
To explore possibilities of developing a Ph.D program in Clinical Engineering.
- 2010 **Member**, Admissions Committee, Healthcare, Technology and Place Training Program, Faculty of Medicine, Faculty of Medicine, Toronto, Ontario, Canada.
- 2008 - 2009 **Member**, Department Chair Search Committee, Department of Occupational Science & Occupational Therapy, Faculty of Medicine, Toronto, Ontario, Canada.
- 2008 **Member**, Faculty Search Committee, CLTA Position in Rehabilitation Engineering, Institute of Biomaterials and Biomedical Engineering, Toronto, Ontario, Canada.
- 2007 - 2008 **Member**, Task Force Committee on Governance of the Rehabilitation Sector, Faculty of Medicine, Toronto, Ontario, Canada.
- 2007 - 2008 **Chair**, Research Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2007 **Member**, Admissions Committee, Healthcare, Technology and Place Training Program, Faculty of Medicine, Faculty of Medicine, Toronto, Ontario, Canada.
- 2006 **Member**, PTR Review Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2005 - 2006 **Member**, Faculty Search Committee, Graduate Department of Speech-Language Pathology, Faculty of Medicine, Toronto, Ontario, Canada.
- 2005 **Member**, PTR Review Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2003 - 2008 **Member**, Research Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.
- 2003 - 2007 **Member**, Graduate Affairs and Appointments Committee, Graduate Department of Rehabilitation Sciences, Faculty of Medicine, Toronto, Ontario, Canada.
- 2003 - 2005 **Member**, Faculty/Staff Development Committee, Department of Occupational Therapy, Toronto, Ontario, Canada.

Peer Review Activities

EDITORIAL BOARDS

Editorial Board Member

Alex MIHAILIDIS

2013 - present "Pervasive Health: State of the Art and Beyond" C. Rucker (ed.), Springer
2013 - present OMICS Publishing Group, Journal of Ambient Intelligence and Smart Environmens
2010 - present OMICS Publishing Group, Journal of Bioengineering & Biomedical Sciences
2009 - 2012 Decision Theory Models for Application in Artificial Intelligences: Concepts and Solutions, L.E. Sucar, E. Morales, J. Hoey (eds.), IGI Global

Guest Editor

2010 - 2011 IEEE/ASME Transactions on Mechatronics, Special Issue on Sensing Technologies for Biomechanics

GRANT REVIEWS

External Grant Reviewer

2012 American Alzheimer Association
2011 Dec United States-Israel Binational Science Foundation (External reviewer)
2011 - 2012 National Medical Research Council, Ministry of Health, Singapore
2010 Natural Sciences and Engineering Research Council of Canada (NSERC), Strategic Projects Grant Program (Invited reviewer)
2009 American Alzheimer Association, (Invited Reviewer)
2009 Nova Scotia Health Research Foundation, (Invited reviewer)
2008 American Alzheimer Association, (Invited Reviewer)
2008 Canadian Institutes of Health Research, Operating Grant Program (Invited Reviewer)
2007 American Alzheimer Association, (Invited Reviewer)
2007 Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant Program (Invited Reviewer)
2006 Alberta Science and Research Investments Program, (Invited Reviewer)
2006 Bloorview Research Institute, (Invited Reviewer)
2006 NIA Roybal Center, ORCATECH (Oregon Center for Aging & Technology), (Invited Reviewer)
2005 American Alzheimer Association, (Invited Reviewer)
2005 Bloorview Childrens Hospital Foundation, (Invited Reviewer)
2005 Canadian Institutes, Institute of Aging Pilot Project Program (Invited Reviewer)
2003 Oregon Alzheimer Disease Center (OADC), Pilot Grant Program (Invited Reviewer)
2003 The Hospital for Sick Children Foundation, (Invited Reviewer)
2002 Natural Sciences and Engineering Research Council of Canada (NSERC), Collaborative Health Research Program (Invited Reviewer)

Committee Member

2011 Jul 1 - 2012 Jun 30 CIHR, Fellowships - Post-PhD

Grant Review Committee Member

2002 - 2003 Lions Gate Healthcare Research Foundation

Invited expert reviewer

2009 National Science Foundation

Invited Peer Review Committee Member

2004 U.S. Department of Education, National Institute on Disability and Rehabilitation Research

Invited Site Reviewer

2008 National Science Foundation (NSF), Engineering Research Centers
2008 Natural Sciences and Engineering Research Council of Canada (NSERC), Chair in Engineering Design (Invited Site Reviewer, Committee Chair)

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Member

2013 Feb - present CIHR, Social Dimensions on Aging Committee
2012 Aug - present CIHR, Joint Selection Committee - China-Canada Joint Health Research Initiative

MANUSCRIPT REVIEWS

Reviewer

2012 - present IEEE Pervasive Computing
AI Magazine (Invited reviewer)
Assistive Technology Journal (Invited reviewer)
Canadian Journal on Aging
Disability and Rehabilitation Journal (Invited reviewer)
Gerontechnology Journal (Invited reviewer)
Journal of Data and Information Quality (Invited reviewer)
Journal of Gerontology: Psychological Sciences (Invited reviewer)
Journal of Neuropsychological Rehabilitation, Special Edition on Technology and Cognitive Rehabilitation (Invited external reviewer)
Journal of Rehabilitation Research & Development (Invited reviewer)
Universal Access in the Information Society Journal (Invited reviewer, Special Issue on Human-Computer Interfaces)

PRESENTATION REVIEWS

Reviewer

BodyNETS 2008 Conference (paper reviewer)
IEEE Conference on Intelligent Robots and Systems (Invited external reviewer)
IEEE Transactions on Information Technology in Biomedicine (Invited peer-review committee member)
IEEE Transactions on Robotics and Automation (Invited reviewer)
Intelligent Environments 2010 (paper reviewer)
PervComp – International Conference on Pervasive Computing (Invited reviewer)
RESNA Annual Conference (Program and abstract reviewer)
The 2nd International Conference on Technology and Aging (Abstract/Paper Reviewer)
The 4th International Conference on Pervasive Computing Technologies for Healthcare 2010 (paper reviewer)
The International Conference on Ubiquitous Computing (Invited full paper reviewer)
World Congress on Medical Physics and Biomedical Engineering (Paper reviewer)

BEST PAPER AWARD COMMITTEE

Reviewer

2012 Jul 4 - 2012 Dec The 2012 Ubiquitous Computing Conference

STUDENTSHIP AWARD REVIEWER

Reviewer

2012 Jun - 2012 Jul 30 Bloorview Research Institute

C. Academic Profile

1. RESEARCH STATEMENTS

Current Research Interests.

My research interests lie within the intersections of gerontology, engineering, computer science, and healthcare. I have specifically been conducting research in the application of these principles to support older adults in their own environments and contexts. I have been developing and will continue to work on three primary research thrusts, each with their own specific projects: a) Supportive intelligent environments; b) Safe mobility and falls; and c) Health monitoring and response.

a. Supportive Intelligent Environments

My primary area of research is the development and testing of intelligent systems that can aid older adults with dementia through common activities of daily living (ADL). To date I have developed several prototypes of this technology. My resulting clinical trials and findings were some of the first to show the feasibility of using this type of system in this application. However, these trials also showed that several improvements to the technology were needed. In particular, it became very evident that any future systems needed to be more intelligent and autonomous, thus leading me to investigate more in-depth the role of artificial intelligence in healthcare. Within the theme of supportive intelligent environments for older adults, I have more recently become interested in studying and understanding research questions that will help to support the development of the aforementioned technology. Specifically: 1) what are the needs, preferences, and views of older adults with respect to using technology to support them in the home; 2) what types of strategies are used by caregivers when providing assistance and care to older adults with dementia; and 3) what are the social and ethical implications of this type of autonomous technology.

b. Safe Mobility and Falls

Independent and safe mobility is a key element in the continued maintenance of good health and quality of life for older adults. Of particular concern is the safe use of mobility devices, such as powered wheelchairs, risks of falls, and the fear of falling among older adults. The use of pervasive computing and intelligent assistive technology in this application has great potential. As such, I have begun to investigate the application of artificial intelligence to develop systems to ensure the safe mobility of older adults (both cognitively intact and impaired). For example, I am currently investigating an intelligent health monitoring and emergency response system to support aging-in-place. A key component of this system is the ability to automatically detect if an older adult has fallen in the home and then to provide the appropriate assistance without any device being worn on the person (e.g. call emergency services).

c. Health Monitoring and Response Systems

There is significant evidence that as an older adult's health declines the ability to complete ADL tasks also declines, and vice-versa. I have proposed that this relationship can be used to develop an automated health monitoring device that does not rely on physiological measures (as current systems do, which many users find obtrusive and cumbersome), but on data that describes ADL completion and patterns of daily living. I have been focusing on the development of two modules for use in this new technology—a computer vision based system that can track the movements and actions of an older adult and learn the person's pattern of living, and an automated speech recognition system that can communicate with the user. Within this area, I have also started a brand new area of research on ambient-based physiological monitoring. For example, we are exploring embedding sensors into door-knobs, chairs, and toilets so that physiological data can be collected whenever the user interacts with these objects. We have started a new project within this area focusing on

older adults with congestive heart failure.

2. TEACHING PHILOSOPHY

Approach and Teaching Philosophy

My overall goal in teaching, including graduate student supervision, is to provide students with an open, informative, and challenging forum in which they are active participants in their learning. I achieve this through various approaches and mechanisms, which are dynamic in nature varying with the goals of the curriculum and audience. However, my overall approach toward course design and teaching always encompasses the philosophy of allowing students the opportunity for self-learning and discovery, through the presentation of a structured curriculum involving a balance of seminar material, independent and group assignments, and independent learning opportunities.

Teaching Interests

I have teaching interests in the following areas:

a. Technology and Aging

Fundamentals of technology along with the factors associated with the acceptance and rejection of new tools need to be taught. In addition to teaching the fundamentals of technology and design, a study of human factors as applied to the older adult is also required. For example, students need to understand how to determine the needs of this population, their abilities in using new devices and technology, and other factors that may affect a person’s ability to use a new device. This includes social, ethical, and policy-related issues.

b. The design and development of effective and useful healthcare/assistive devices

The fundamentals of understanding the user, including physical and cognitive changes, and the context of the user will be the cornerstones of teaching principles related to this topic area. Basic areas of design and the development process need to be covered, including the use of design criteria and specifications, prototype development and testing, and basic manufacturing processes. Understanding the fundamentals of how these devices are prescribed by therapists and used, typical pitfalls of previous devices, and other issues related to using devices in caregiving, is also crucial.

c. Research Methods

There has been a significant change in the gerontology field, where the field now demands that researchers, students, and practitioners are able to use an evidence-based approach in our work. As such, it is important for those studying gerontology to understand how to discover this evidence, and how to critically appraise it with respect to its importance and scientific merit. These abilities require an in-depth understanding of the research process, beyond typically taught statistical procedures. It requires students to have knowledge of how the research process works and how to apply it in their everyday practices. Topics that should be included are conducting critical appraisals of existing literature, knowledge of research paradigms, quantitative and qualitative approaches, available research tools and techniques, design of methodology, issues surrounding working with human subjects and recruitment, research ethics, and statistical software packages.

D. Research Funding

1. GRANTS, CONTRACTS AND CLINICAL TRIALS

PEER-REVIEWED GRANTS

FUNDED

2014 Jun - 2016 May

Co-Investigator. “Development and Evaluation of iWalk: A Web-based Guide to Facilitate Evidence-informed Assessment of Walking after Stroke”. Canadian Institutes of Health Research (CIHR). Knowledge to Action Operating Grant. PI: N. M. Salbach. Collaborator(s): D. Brooks, M. MacKay-Lyons, P. Solomon, M. Bayley, **A. Mihailidis**, L. Kelloway, K. White,

Alex MIHAILIDIS

J. Howe, A. McDonald. 199,876 CAD. [Grants]

- 2014 May - 2015 Apr **Co-Investigator**. “Collaborative Power mobility Integrated Learning”. Canadian Institutes of Health Research (CIHR). COTF Research Grant. PI: W. Mortenson. Collaborator(s): **A. Mihailidis**, P. Viswanathan. 5,000 CAD. [Grants]
- 2014 May - 2015 Apr **Co-Investigator**. “Collaborative Power mobility Integrated Learning Opportunity (CoPILOT)”. COTF Research Grant. PI: W. Mortenson. Collaborator(s): P. Viswanathan. 5,000 CAD. [Grants]
- 2014 Apr - 2017 Mar **Co-Investigator**. “Development of an Automated System for Pain Detection and Monitoring in Older Adults with Dementia”. Canadian Institutes of Health Research (CIHR). Operating Grant. PI: T. Hadjistavropoulos. Collaborator(s): **A. Mihailidis**, K. Prkachin, B. Taati. 318,660 CAD. [Grants]
- 2014 Apr - 2017 Mar **Co-Principal Investigator**. “Novel Haptics-Enabled Robotic Systems for Rehabilitation Therapy”. Canadian Institutes of Health Research (CIHR). Collaborative Health Research Projects (NSERC partnered). PI: R. Patel, I. Polouchine, M. Tavakol, W. Teasell. Collaborator(s): V. Raso. 546,792 CAD. [Grants]
- 2014 Apr - 2015 Mar **Principal Investigator**. “Tele-Rehabilitation for Stroke through Intelligent Robotic Systems”. Heart and Stroke Foundation of Canada (HSFC). Operating Grant. Collaborator(s): D. Hebert, R. Wang, D. Hammond, J. Naccarato. 260,000 CAD. [Grants]
HSF Canadian Partnership for Stroke Recovery (CPSR) and Heart and Stroke Foundation of Canada (HSFC).
- 2014 Apr - 2015 Mar **Principal Investigator**. “SWAT: Smart Wheelchairs for Assessment and Training of Older Adults”. Canadian Institutes of Health Research (CIHR). Planning Grants. Collaborator(s): W. Miller, P. Viswanathan, R. Wang. 22,500 CAD. [Grants]
- 2014 Apr - 2015 Mar **Co-Investigator**. “The Institute for Robotics and Mechatronics (IRM) SmartCare Laboratory: Healthcare Robots for the Elderly”. NSERC. Research Tools and Instruments - Category 1. PI: G. Nejat. Collaborator(s): S. Dickinson, B. Benhabib, J. Mills, C. Boutilier. 149,995 CAD. [Grants]
- 2013 Nov - 2014 Oct **Co-Principal Investigator**. “Aging gracefully across environments using technology to support wellness, engagement and long life”. Network of Centers of Excellence. Planning Grants. PI: A. Sixsmith. 25,000 CAD. [Grants]
- 2013 Oct - 2015 Sep **Co-Principal Investigator**. “Autonomous and unobtrusive monitoring of the physiology and physical activity of seniors within the smart home environment”. Canadian Institutes of Health Research (CIHR). Operating Grant. PI: C. Chessex, S. Grace. Collaborator(s): A. Arcelus, S. Mak. 144,960 CAD. [Grants]
- 2013 Sep - 2014 Sep **Principal Investigator**. “Preparing the HELPER fall detection system for transfer to market”. Ontario Centres of Excellence. Voucher for commercialization. Collaborator(s): B. Taati. 49,950 CAD. [Grants]
Project partners: Conceus & TRI-UHN.
- 2013 Jul - 2014 Jun **Principal Investigator**. “CLSA-TECH: Extending the Canadian Longitudinal Study on Aging Platform through Environmental and Person-based Technologies”. Canadian Institutes of Health Research (CIHR). Planning Grant. 24,500 CAD. [Grants]
- 2013 May - 2016 Apr **Principal Investigator**. “A Modular Intelligent Power Wheelchair System to Enhance

Mobility, Safety and Participation of Users". CIHR-NSERC. Collaborative Health Research Program (CHRP). Collaborator(s): B. Miller, A. Mackworth, K. McGuilton, S. Jaglal. 455,860 CAD. [Grants]

2013 Apr - 2018 Feb **Co-Investigator.** " 'NeuroCare' as Innovation in Intervention: A Neurophysiological Approach to Determine Readiness for Return to Activity". Canadian Institutes of Health Research (CIHR). Team Grant. PI: M. Keightley. Collaborator(s): Reed, Nicholas; Adams, Kimberley; Barlow, Karen M; Chau Tom; Davis, Karen D; Fait, Philippe; Gagnon, Isabelle; Hung, Ryan; Mrazik, Martin; Ptito, Alain; Rumney, Peter G; Strother, Stephen; Tator, Charles H; Thomas, Scott G; Wright, Virginia F; Zabjek, Karl F. 1,065,728 CAD. [Grants]

2013 Apr - 2017 Mar **Co-Investigator.** Bipolar disorder in later life: A mixed-methods, experiential sampling study of health and well-being over time. Canadian Institutes of Health Research (CIHR). Operating Grant. PI: N. O'Rourke, E. Michalak, A. Sixsmith. Collaborator(s): A. Mahmood, C. Depp, U. Glasser, P. Borwein, I. Torres, R. Hole, A. DeLongis, A. Kirkpatrick, W. Loken Thornton, C. Hoppmann, M. Heisel. 898,508 CAD. [Grants]

2013 Apr - 2014 Mar **Principal Investigator.** "Evaluation of an intelligent haptic robotic rehabilitation system to improve upper-limb recovery post-stroke". Canadian Stroke Recovery Network. Pilot grant. Collaborator(s): W. Wodchis, R. Wang. 49,500 CAD. [Grants]

2013 Mar - 2014 Feb **Co-Principal Investigator.** "Evaluation of an automated fall detection and monitoring system". Academic Medical Organization of Southwestern Ontario (AMOSO). Operating Grant. PI: L. Van Busel. Collaborator(s): T. Ross, E. Black, I. Gutmanis, J. Speziale, T. O'Regan. 50,000 CAD. [Grants]
Held at St. Josephs Hospital (London, Ontario).

2013 Jan - 2015 Dec **Principal Investigator.** "Ambient Assistive Living Technologies for Wellness, Engagement, and Long Life". The European Research Area in Ageing (ERA-AGE 2). Joint research programme. Collaborator(s): A. Sixsmith, A. Astell, L. Nygard. 517,555 EUR. [Grants]

2012 Sep - 2015 Aug **Principal Investigator.** "Toward developing an assistive technology framework for older adults with dementia: A user-centred design approach". Alzheimer Society of Canada. Alzheimer Society Research Program. 120,000 CAD. [Grants]

2012 Sep - 2014 Aug **Co-Investigator.** "Exercising Citizenship in an Ageist World". Social Sciences and Humanities Research Council of Canada. Development Insight Grant (New Investigator). PI: B. Trentham. Collaborator(s): S. Neysmith. 64,716 CAD. [Grants]

2011 Oct - 2012 Feb **Co-Investigator.** "Forget me not: A calvacade of commitment for Alzheimer's disease and related dementia". Canadian Institutes of Health Research (CIHR). Cafe Scientifique Program. PI: C. Tran. Collaborator(s): C. Greenwood, M. Mittelman, J. Sadavoy, S. Dudgeon, M. Schulz. 3,000 CAD. [Grants]

2011 May - 2013 Apr **Principal Investigator.** "A robotic-smart home environment to support aging-in-place". Canadian Institutes of Health Research (CIHR). Pilot Projects Program. Collaborator(s): J. Hoey, G. Nejat, R. Wang, G. Naglie. 50,000 CAD. [Grants]
Held at TRI.

2011 May - 2012 Sep **Principal Investigator.** "Smart homes and environments for children with autism". Telus. Toronto Community Board. 20,000 CAD. [Grants]
Held at TRI.

2010 Jul - 2013 Jun **Co-Principal Investigator.** "Development of products to reduce burden of care at home".

Ministry of Research and Innovation (MRI) (Ontario). Ontario Research Fund Research Excellence Program. PI: G.R. Fernie. 4,621,011 CAD. [Grants]
Held at TRI.

- 2010 Jul - 2011 Jun **Co-Principal Investigator.** "CanWheel Think Tank on International Approaches to Improving Power Mobility". Canadian Institutes of Health Research (CIHR). Meetings, Planning and Dissemination Grant in Aging. PI: B. Miller, **A. Mihailidis**. Collaborator(s): L. Demers, L. Hurd Clarke, L. Kirby, J. Polgar, F. Routhier. 25,000 CAD. [Grants]
- 2009 Jul - 2015 Sep **Co-Investigator.** "CIHR Team in Wheeled Mobility for Older Adults (WheeMOAT)". Canadian Institutes of Health Research (CIHR). NET Grant. PI: W.C. Miller. Collaborator(s): L. Demers, A. Mackworth, R.L. Kirby, G.E. Birch, L. Clark, J. Little, I.M. Mitchell, M. Oishi, J. Polgar, F. Routhier, B. Sawatzky, C. Smith. 1,501,447 CAD. [Grants]
- 2009 Jul - 2015 Jun **Co-Investigator.** "Health Care, Technology and Place II: A Strategic Training Initiative". Canadian Institutes of Health Research (CIHR). Training Grant. PI: P. Coyte. 1,950,000 CAD. [Grants]
- 2009 Jul - 2013 Jun **Co-Investigator.** "Collaborative Academic Rehabilitation Engineering (CARE) Program". Natural Sciences and Engineering Research Council of Canada (NSERC). CREATE Program. PI: T. Chau. Collaborator(s): G. Fernie, M. Popovic, P. Santerre, R. Baecker, W. Wong, H. Naguib, A. Colantonio, C. Steele, B. Maki. 1,650,000 CAD. [Grants]
- 2009 Jul - 2013 Mar **Principal Investigator.** "Intelligent Haptic Upper-Limb Rehabilitation". NSERC-CIHR. Collaborative Health Research Program. Collaborator(s): C. Boutilier, W. McIlroy, D. Hebert (Collaborator), J. Hoey (Collaborator). 316,000 CAD. [Grants]
- 2009 Jul - 2013 Mar **Principal Investigator.** "The application of the COACH prompting system to nutrition among older adults". Canadian Institutes of Health Research (CIHR). NDA Supplemental Funding Program. Collaborator(s): E. Rochon. 222,000 CAD. [Grants]
Held at TRI.
- 2009 Jul - 2013 Jan **Principal Investigator.** "Expansion and development of the COACH prompting system for older adults with dementia". Canadian Institutes of Health Research (CIHR). Operating Grant. Collaborator(s): C. Boutilier, G. Fernie, G. Naglie, J. Cameron. 265,155 CAD. [Grants]
- 2009 Jul - 2012 Jun **Co-Investigator.** "Inclusive Design Institute". Canada Foundation for Innovation (CFI). New Initiatives Fund. PI: J. Treviranus. Collaborator(s): A. Jadad, R. Florida, J. Slotta, S. Diamond, C. Frazee, D. Fels, M. Rioux, R. Owston, et. al. 9,311,120 CAD. [Grants]
- 2009 Jul - 2010 Jun **Co-Investigator.** "SP-led peer role-playing workshops as a tool for teaching communication and clinical skills". Standardized Patient Program's 25th Anniversary Grant. PI: H. Carnahan. Collaborator(s): C. Walsh, J. Stier, **A. Mihailidis**. 8,000 CAD. [Grants]
- 2009 **Principal Investigator.** "Automated emergency detection and response system". Ontario Research Commercialization Program. TTT Program. Collaborator(s): J. Boger, D. Giesbrecht. 15,000 CAD. [Grants]
Held at TRI.
- 2008 Sep - 2013 Sep **Co-Investigator.** "Healthcare support through information technology enhancements (hSITE)". Natural Sciences and Engineering Research Council of Canada (NSERC). PI: D.V. Plante. Collaborator(s): M.W. Carter, T. Le-Ngoc, R. Cohen, E.M. Petriu, R.A. Goubran, A. Chignell, and 10 others. 4,665,416 CAD. [Grants]
\$66,000 held at U of T for 2012, 2013.

- 2008 Jul - 2014 Jun **Co-Investigator.** "CIHR Team for the development, testing, and knowledge translation of innovative approaches to optimize gait and balance of older adults". Canadian Institutes of Health Research (CIHR). Emerging Team Grant. PI: B. Maki. Collaborator(s): M. Bayley, D. Brooks, G. Fernie, A. Flint, S. Jaglal, B. Liu, W. McIlroy, S. Perry, M. Popovic, J. Pratt. 1,456,012 CAD. [Grants]
- 2008 Jul - 2013 Jan **Principal Investigator.** "Towards a pervasive prompting system: Improving and expanding the COACH". American Alzheimer Association. Collaborator(s): C. Boutlier, G. Fernie, J. Hoey, G. Naglie. 196,324 USD. [Grants]
- 2008 Jul - 2010 Jun **Principal Investigator.** "The development of an intelligent health monitoring and response system to support aging-in-place, safety, and independence". Natural Sciences and Engineering Research Council of Canada (NSERC). Individual Discovery Grant. 27,000 CAD. [Grants]
- 2008 Jul - 2009 Jun **Co-Investigator.** "Hand Hygiene System". Ontario Centres of Excellence. PI: G. Fernie. Collaborator(s): A. McGeer, K. McGilton, **A. Mihailidis**, S. Jaglal. 478,102 CAD. [Grants] \$253,122 Cash, \$224,979 in-kind.
- 2008 Jul - 2009 Jun **Principal Investigator.** "From the Lab to the Living Room: A Workshop to Develop Proposals for Research into the Implementation and Evaluation of Assistive Technology for People with Dementia in the Community". Canadian Institutes of Health Research (CIHR). Research on Aging Advancement Program (Workshop Program). Collaborator(s): T. Adlam. 25,000 CAD. [Grants]
- 2007 Jul - 2011 Jan **Co-Principal Investigator.** "Development of an automated system to facilitate creative expression". American Alzheimer Association. ETAC Program. PI: J. Hoey, **A. Mihailidis**. 196,150 USD. [Grants] \$70,000 USD held at U of T.
- 2007 Jul - 2009 Jun **Principal Investigator.** "The efficacy of an intelligent prompting system to develop self-care activities in children with autism". CIHR (IHDCYH)/Hospital for Sick Children. New Investigator Program. Collaborator(s): W. Roberts, H. Polatajko, T. Chau. 129,470 CAD. [Grants]
- 2007 Jul - 2008 Jun **Co-Principal Investigator.** "Essential linkages and applied technology: Effective and deployable falls prevention exercise program for frail older adults". Victoria Foundation. PI: C. Beach, **A. Mihailidis**. 15,000 CAD. [Grants]
- 2007 Jul - 2008 Jun **Co-Investigator.** "Advanced hand hygiene system to reduce hospital-acquired infections". Canadian Institutes of Health Research (CIHR). Health Technology Exchange Program. PI: G. Fernie. Collaborator(s): A. McGeer, **A. Mihailidis**, K. McGilton. 80,000 CAD. [Grants]
- 2007 Jul - 2008 Jun **Co-Principal Investigator.** "Internet use among occupational therapists in their clinical practice". Canadian Institutes of Health Research (CIHR). Healthcare, Technology and Place Program. PI: **A. Mihailidis**, A. Colantonio. 8,000 CAD. [Grants] *Interdisciplinary Training Initiative.*
- 2007 Jul - 2008 Jun **Co-Investigator.** "The determinants of safe mobility in the elderly who use assistive mobility devices". Canadian Institutes of Health Research (CIHR). Institute of Aging, Pilot Project Program. PI: K. Zabjek, W. McIlroy. Collaborator(s): S. Black, G. Fernie, W. Gage, S. Hill, B. Maki, **A. Mihailidis**, G. Naglie. 47,500 CAD. [Grants]

Alex MIHAILIDIS

- 2006 Jul - 2008 Jun **Principal Investigator.** "Development and validation of an automated tool for detecting and preventing unsafe stair use by older adults". Canadian Institutes of Health Research (CIHR). Institute of Aging, Pilot Project Program [extended]. Collaborator(s): J. Hoey, B. Maki, H. Sveistrup. 48,227 CAD. [Grants]
- 2006 Jul - 2008 Jun **Principal Investigator.** "Intelligent Haptic Stroke Rehabilitation". CITO PRECARN Alliance Program. Collaborator(s): C. Boutilier, G. Fernie, W. McIlroy. 211,612 CAD. [Grants]
\$150,000 cash, \$62,612 in-kind.
- 2006 Jul - 2007 Jun **Co-Principal Investigator.** "Navigating the Learning Environment: Experiences of University Students with Physical Disabilities". Canadian Occupational Therapy Foundation. PI: B. Trentham, **A. Mihailidis**. Collaborator(s): S. Guenther. 5,000 CAD. [Grants]
- 2006 Jul - 2007 Jun **Co-Investigator.** "Monitored portable handwash". Canadian Institutes of Health Research (CIHR). Health Technology Exchange Program. PI: G. Fernie. Collaborator(s): A. McGeer, **A. Mihailidis**, K. McGilton, K. Bowman. 40,000 CAD. [Grants]
- 2006 Jul - 2007 Jun **Co-Investigator.** "Infection control turnstile". Canadian Institutes of Health Research (CIHR). Health Technology Exchange Program. PI: G. Fernie. Collaborator(s): A. McGeer, **A. Mihailidis**, K. McGilton. 127,500 CAD. [Grants]
- 2005 Jul - 2007 Jun **Co-Principal Investigator.** "Experiencing the world through an autistic body". Canadian Institutes of Health Research (CIHR). Healthcare, Technology and Place Program. PI: J. Silva, P. Leroux, **A. Mihailidis**. Collaborator(s): H. Zitzelsberger, T. Chau. 8,000 CAD. [Grants]
Interdisciplinary Training Initiative.
- 2005 Jul - 2007 Jun **Principal Investigator.** "The efficacy of a personal disinfecting gel dispenser in increasing infection control in clinical settings". Canadian Institutes of Health Research (CIHR). Healthcare, Technology and Place Program. Collaborator(s): L. MacKeigan. 7,000 CAD. [Grants]
Interdisciplinary Training Initiative.
- 2005 Jul - 2007 Jun **Co-Principal Investigator.** "The effect of technology on health care and place for women with brain injury". Canadian Institutes of Health Research (CIHR). Healthcare, Technology and Place Program. PI: **A. Mihailidis**, A. Colantonio. Collaborator(s): J. Cameron. 8,000 CAD. [Grants]
Interdisciplinary Training Initiative.
- 2005 **Co-Investigator.** "Letter of Intent: Addressing Health Disparities for Persons Living with TBI". Canadian Institutes of Health Research (CIHR). Reducing Health Disparities Initiative. PI: A. Colantonio. Collaborator(s): T. Chiu, N. Cullen, R. Deber, H. MacLean, **A. Mihailidis**, D. Velikonja, K. Yoshida, M. Keightley. 5,000 CAD. [Grants]
- 2004 Jul - 2008 Jun **Principal Investigator.** "An intelligent environment to support aging-in-place and independence". American Alzheimer Association. ETAC Program Operating Grant. Collaborator(s): C. Boutilier, G. Fernie. 229,899 CAD. [Grants]
\$172,558 USD.
- 2004 Jul - 2007 Jun **Principal Investigator.** "The development of an intelligent health monitoring and response system to support aging-in-place, safety, and independence". Natural Sciences and Engineering Research Council of Canada (NSERC). Individual Discovery Grant. 40,500 CAD. [Grants]

Alex MIHAILIDIS

- 2004 Jul - 2006 Jun **Principal Investigator.** "Determining effective cueing strategies used by caregivers with people with Alzheimer's disease". Alzheimer Society of Canada and CIHR Institute for Aging. Young Investigators Grant. 44,944 CAD. [Grants]
- 2004 Jul - 2005 Jun **Principal Investigator.** "The design and application of a partially observable Markov decision process (POMDP) in the development of intelligent environments for older adults with dementia". Intel Corporation. Application, Interfaces, and Media Research Grant. Collaborator(s): C. Boutilier, G. Fernie. 47,859 CAD. [Grants] \$35,000 USD.
- 2003 Jul - 2004 Jun **Principal Investigator.** "The effects of a knee brace on the mobility of older adults with osteoarthritis during common walking tasks: Clinical testing of the OrthoActive knee brace". OrthoActive Appliances Inc. & National Research Council. Industrial Research Assistance Program (IRAP). Collaborator(s): Y. Jones. 15,000 CAD. [Grants]

NON-PEER-REVIEWED GRANTS

FUNDED

- 2009 Donation to the Intelligent Assistive Technology and Systems Lab / Intelligent Environment Lab. Anonymous Donor, Facilitated by Fisch, Antonette & Pulver. 300,000 CAD. [Donations] *Held at TRI.*
- 2005 Donation to the Intelligent Assistive Technology and Systems Lab. WimCare Inc. 5,000 CAD. [Donations]
- 2004 Jul - 2005 Jun **Principal Investigator.** "The efficacy of using visual prompting to assist older adults with dementia during activities of daily living". Toronto Rehabilitation Institute. Bridging Funds. 19,100 CAD. [Grants]
- 2004 Donation to the Intelligent Assistive Technology and Systems Lab. Lifeline Systems Canada, Inc. 10,000 CAD. [Donations]
- 2003 Jul - 2005 Jun **Principal Investigator.** "The development of intelligent environments and assistive technology to support aging-in-place". University of Toronto. Connaught Automatic Start-up funds. 10,000 CAD. [Grants]
- 2002 Jul - 2003 Jun **Principal Investigator.** "Built environment and smart home research". Simon Fraser University (SFU) (Burnaby, BC). Gerontology Research Centre, Start-up Funds. 20,000 CAD. [Grants]
- 2000 Jul - 2001 Jun **Co-Principal Investigator.** "Using artificial intelligence to expand the capabilities of emergency response systems of the future – Phase 1". Lifeline Systems Canada, Inc. Research Contract. PI: G. Fernie, **A. Mihailidis**. 30,000 CAD. [Grants]

2. SALARY SUPPORT AND OTHER FUNDING

Personal Salary Support

- 2008 - 2013 The efficacy of an intelligent prompting system to develop self-care activities in children with autism. CIHR, New Investigator Salary Award. 300,000 CAD. Canada. (Specialty: Technology and children).

E. Publications

1. MOST SIGNIFICANT PUBLICATIONS

1. **Mihailidis, A.**, Boger, J. Czarnuch, S. Jiancaro, T. Hoey, J. Ambient Assisted Living Technology to Support Older Adults with Dementia with Activities of Daily Living: Key Concepts and the State of the Art. In: J.C. Augusto, M. Huch, A. Kameas, J. Maitland, P. McCullagh, J. Roberts, A. Sixsmith & R. Wichert (Eds). Ambient Intelligence and Smart Environments: Handbook of Ambient Assisted Living. IOS Press. Amsterdam, Netherlands. 2012, pp. 304-345. ISBN: 978-1-60750-836-6 (Trainee publication). **Principal Author.**

This work represents one of the first comprehensive overviews of the area of ambient assisted living (ALL) technologies as applied to older adults with dementia. This chapter provides an overview of key concepts about AAL technologies including in-depth theoretical concepts related to sensor, artificial intelligence, and design. It also provides an overview of the key past and present projects that are being completed in this area.

2. Lu, E. Wang, R. Hebert, D. Boger, J. Galea, M.P. **Mihailidis, A.** The development of an upper limb stroke rehabilitation robot: identification of clinical practices and design requirements through a survey of therapists. Disability & Rehabilitation: Assistive Technology, 2011, 6(5), 420-431 (Trainee publication, E. Lu). **Senior Responsible Author.**

This paper represents an important new area of research that I have started on the development and testing of new technology for stroke rehabilitation. It specifically describes a new rehab robot that we have developed. This study is important as it outlines the first rehab robot that was designed using a participatory design approach, where we had therapists design and specify the robot and its features through an online (international) survey and various focus groups. The methodology described in this paper is now being replicated by others in the field of rehabilitation robotics.

3. **Mihailidis, A.**, Boger, J. Hoey, J. Jiancaro, T. Zero Effort Technologies: Considerations, Challenges, and Use in Health, Wellness, and Rehabilitation. In: R.M. Baecker (Ed). Synthesis Lectures on Assistive Rehabilitative, and Health-Preserving Technologies. Morgan and Claypool Publishers. San Rafael, CA, 2011, pp. 1-94 (Trainee publication). **Principal Author.**
4. Czarnuch, S. **Mihailidis, A.** The design of intelligent in-home assistive technologies: Assessing the needs of older adults with dementia and their caregivers. Gerontechnology, 2011, 10(3), 169-182 (Trainee publication, Czarnuch S). **Senior Responsible Author.**

This paper represents one of the first papers that describes a detailed study of the needs of older adults with dementia and their family caregivers with respect to smart home technologies. As this field continues to grow, there are more and more technologies that are being developed. However, there has not been any significant work completed that has examined the features and functions that these technologies should have, especially from the perspective of caregivers. This study conducted a large online survey to determine this information. The criteria identified in this paper are now being incorporated by our own technology development project, and by other researchers in the field.

5. **Mihailidis, A.**, Blunsden, S. Boger, J. Richards, B. Zutis, K. Young, L. Hoey, J. Towards the Development of a Technology for Art Therapy and Dementia: Definition of Needs and Design Constraints. The Journal of Arts in Psychotherapy, 2010, 37(4), 293-300. **Principal Author.**

This paper presents a brand new area of research on the use of intelligent systems and technologies to improve access to leisure activities among older adults with dementia. It represents an extension of my research on smart home systems and prompting technologies to assist this population through self-care activities. This paper describes the outcomes of a participatory design approach that was conducted with art therapists in order to determine the feature and functions of this new technology. Using the results of this study we then developed a prototype of this new art therapy table which we successfully trialed with older adults with dementia and their art therapists. This prototype is now being readied for deployment in the waiting room of an Alzheimer's clinic.

2. PEER-REVIEWED PUBLICATIONS

Journal Articles

1. Grzes, M. Hoey, J. Khan, S. **Mihailidis, A.**, Czarnuch, S. Jackson, D. Monk, A. Relational Approach to Knowledge Engineering for POMDP-based Assistance Systems as a Translation of a Psychological Model. International Journal of Approximate Reasoning. 2014 Jan;55(1):36–58. Impact Factor 1.948. **Coauthor or Collaborator.**
2. Boger, J. Arcelus, A. **Mihailidis, A.** Themes learned through the development of intelligent environments that support healthy well-being. Journal of Ambient Intelligence and Smart Environments. 2014 Jan;6(2):215-235. Impact Factor 0.63 (Trainee publication). **Senior Responsible Author.**
3. Rittenhouse, N. Sonnadara, R, **Mihailidis, A.**, Sharma, B. Grantcharov, T. Design and validation of an assessment tool for open surgical procedures. Surgical Endoscopy. 2014;28(3):918-24 (Trainee publication). **Coauthor or Collaborator.**
4. Wang, R. Korotchenko, A. Hurd Clarke, L. Mortenson, B. **Mihailidis, A.** Power mobility with collision avoidance for older adults: User, caregiver and prescriber perspectives. Journal of Rehabilitation Research and Development, 2013, 59(90), 1287-300. Impact Factor 1.708 (Trainee publication). **Senior Responsible Author.**
5. Czarnuch, S. **Mihailidis, A.** An efficacy study of the COACH in a real-world deployment. Journal of Ambient Intelligence and Smart Environments (Thematic Issue on Designing and Deploying Intelligent Environments), 2013 V.5.N.5. pp.463-478. Impact Factor 0.63 (Trainee publication). **Senior Responsible Author.**
6. How, T-V. Wang, R.H. **Mihailidis, A.** Evaluation of an intelligent wheelchair system for older adults with cognitive impairments. Journal of Neuroengineering and Rehabilitation, 2013,10:90. Impact Factor 3.26 (Trainee publication). **Senior Responsible Author.**
7. Wilson, R. Rochon, E. Mihailidis, A. Leonard, C. Quantitative analysis of formal caregivers' use of communication strategies while assisting individuals with moderate and severe Alzheimer's disease during oral care. Journal of Communication Disorders, 2013, 46(3):249-63. Impact Factor 1.875 (Trainee publication). **Co-Senior Responsible Author.**
8. Taati, B. Snoek, J. **Mihailidis, A.** Video analysis for identifying human operation difficulties and faucet usability assessment. Neurocomputing, 2013, 100, 163-169. Impact Factor 1.58 (Trainee publication). **Senior Responsible Author.**
9. Boger, J. Taati, B. **Mihailidis, A.** Lessons Learned through the Development of an Automated Video Analysis Tool for the Analysis of Product Use by Older Adults with Dementia. IEEE Journal of Biomedical and Health Informatics. 2013. In Press. Impact Factor 0.747 (Trainee publication). **Senior Responsible Author.**
10. Boger, J. Craig, T. **Mihailidis, A.** Examining the impact of familiarity on faucet usability for older adults with dementia. BMC Geriatrics. 2013;13(63). Impact Factor 1.78 (Trainee publication). **Senior Responsible Author.**
11. Rashidi, P. **Mihailidis, A.** A Survey on Ambient Assisted Living Tools for Older Adults. IEEE Journal of Biomedical and Health Informatics. 2013;17(3):579-590. **Co-Principal Author.**

12. Jiancaro, T. Jamieson, G. **Mihailidis, A.** Twenty years of cognitive work analysis in healthcare: A scoping review. *Journal of Cognitive Engineering and Decision Making*. 2013 (Trainee publication). **Senior Responsible Author.**
13. Leuty, V. Boger, J. Young, L. Hoey, J. **Mihailidis, A.** Engaging Older Adults with Dementia in Creative Occupations Using Artificially Intelligent Assistive Technology. *Assistive Technology*. 2013;25(2):72-79. Impact Factor 0.51 (Trainee publication). **Senior Responsible Author.**
14. Young, V. **Mihailidis, A.** The CARES Corpus: A database of older adult actor simulated emergency dialogue for developing a personal emergency response system. *International Journal of Speech Technology*. 2013;16:55-73 (Trainee publication). **Senior Responsible Author.**
15. Tung, J. Synder, H. Hoey, J. **Mihailidis, A.**, Carrillo, M. Favela, J. Everyday patient-care technologies for Alzheimer's disease. *IEEE Pervasive Computing*. 2013;12(4):80-83. Impact Factor 0.51. **Coauthor or Collaborator.**
16. Czarnuch, S. Cohen, S. Parameswaran, V. **Mihailidis, A.** A real-world deployment of the COACH prompting system. *Journal of Ambient Intelligence and Smart Environments, Thematic Issue on Designing and Deploying Intelligent Environments*. 2013;5(4):463-478 (Trainee publication). **Senior Responsible Author.**
17. Hoey, J. Boutilier, C. Poupart, P. Olivier, P. Monk, A. **Mihailidis, A.** People, sensors, decisions: Customizable and adaptive technologies for assistance in healthcare. *ACM Transactions on Interactive Intelligent Systems (TiiS)*, 2012, 2(4), 1-36. **Coauthor or Collaborator.**
18. Wilson, R. Rochon, E. Leonard, C. **Mihailidis, A.** Formal caregiver's perceptions of effective communication strategies while assisting residents with Alzheimer's disease during activities of daily living. *Canadian Journal of Speech-Language Pathology and Audiology*, 2012, 36(4), 314-331. (Trainee publication). **Co-Senior Responsible Author.**
19. Bimbrahw, J. Boger, J. **Mihailidis, A.** Investigating the Efficacy of a Computerized Prompting Device to Assist Children with Autism Spectrum Disorder with Activities of Daily Living. *Assistive Technology*, 2012, 24(4), 286-298. Impact Factor 0.51. **Senior Responsible Author.**
20. Wilson, R.J. Rochon, E. **Mihailidis, A.** & Leonard, C. Examining Success of communication strategies used by formal caregivers assisting individuals with Alzheimer's disease during an activity of daily living. *Journal of Speech, Language, and Hearing Research*, 2012, 55(2), 328-41 (Trainee publication). **Coauthor or Collaborator.**
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3. NON-PEER-REVIEWED PUBLICATIONS

Books Edited

1. **Mihailidis, A.**, Boger, J. Kautz, H. Normie, L. Assistive Technology Research Series: Technology and Aging. IOS Press. Amsterdam, Netherlands, 2008. ISBN: 978-1-58603-815-1. **Principal Author.**

2. Bardram, J. **Mihailidis, A.**, Wan, D. Pervasive Computing in Healthcare. CRC Press. Boca Raton, FL, 2006. ISBN 0-8493-3621-x. **Principal Author.**

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1. Hoey, J. Poupart, P. Boutilier, C. **Mihailidis, A.** POMDP models for Assistive Technology. In: L.E. Sucar, E. Morales, J. Hoey (Eds). Decisions Theory Models for Applications in Artificial Intelligence: Concepts and Solutions. IGI Global. Hershey, PA, 2011, pp. 294-314. ISBN: 9781609601652. **Co-Principal Author.**
2. Adlam, T. Carey-Smith, B. Evans, N. Orpwood, R. Boger, J. **Mihailidis, A.** Implementing Monitoring and Technological Interventions in Smart Homes for People with Dementia: Case Studies. In: B. Gottfried & H. Aghajan (Eds). Ambient Intelligence and Smart Environments: Behaviour Monitoring and Interpretation - BMI. IOS Press. Amsterdam, Netherlands, 2009, pp. 159-182. ISBN: 978-1-60750-048-3. **Senior Responsible Author.**
3. Maki, B.E. Cheng, K.C-C. Corbeil, P. Fernie, G.R. Gorski, S. King, E.C. Holliday, P.J. Lee, T.A. Liu, B.A. Mansfield, A. Mcllroy, W.E. McKay, S.M. **Mihailidis, A.**, Perry, S.D. Peters, A.L. Popovic, M.R. Pratt, J. Scovil, C.Y. Tung, J.Y. Interventions to prevent falls by promoting more effective balance-recovery reactions. In: M.L. Vincent, T.M. Moreau (Eds), Accidental Falls: Causes, Preventions and Interventions. Nova Science Publishers. Hauppauge, NY, 2008, pp. 261-282. ISBN: 978-1-60456-766-3. **Coauthor or Collaborator.**
4. Snoek, J. Hoey, J. **Mihailidis, A.** An Automated Tool for Detecting and Preventing Unsafe Stair Use. In: A. Mihailidis, J. Boger, H. Kautz, L. Normie (Eds). Assistive Technology Research Series: Technology and Aging. IOS Press. Amsterdam, Netherlands, 2008, pp. 189-196. ISBN: 978-1-58603-815-1 (Trainee publication). **Senior Responsible Author.**
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6. Viswanathan, P. Boger, J. Hoey, J. **Mihailidis, A.** A Comparison of Stereovision and Infrared as Sensors for an Anti-Collision Powered Wheelchair for Older Adults with Cognitive Impairments. In: A. Mihailidis, J. Boger, H. Kautz, L. Normie (Eds). Assistive Technology Research Series: Technology and Aging. IOS Press. Amsterdam, Netherlands, 2008, pp. 165-172. ISBN: 978-1-58603-815-1 (Trainee publication). **Senior Responsible Author.**
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Conference Proceedings Articles/Books

1. Dolatabadi, E. **Mihailidis, A.** Development of an automated balance assessment tool. U of T Institute of Biomaterials and Biomedical Engineering Student Seminars, March 5, 2013, Toronto, ON (Trainee publication). **Senior Responsible Author.**
2. Bhatnagar, M. **Mihailidis, A.** The Development and Evaluation of a Context-Aware User Interface for Patient rooms. U of T Institute of Biomaterials and Biomedical Engineering Student Seminars, February 5, 2013, Toronto, ON (Trainee publication). **Senior Responsible Author.**
3. Oramasionwu, P. **Mihailidis, A.** Investigation of Computer Vision Techniques for Obstacle Classification on an Intelligent Wheelchair System. U of T Institute of Biomaterials and Biomedical Engineering Student Seminars, December 11, 2012, Toronto, ON (Trainee publication). **Senior Responsible Author.**
4. Czarnuch, S. **Mihailidis, A.** The COACH: A real-world efficacy study. U of T Institute of Biomaterials and Biomedical Engineering Student Seminars, October 2, 2012, Toronto, ON (Trainee publication). **Senior Responsible Author.**

Alex MIHAILIDIS

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6. Hoey, J. Richards, B. Blunsden, S. Burns, J. Bartindale, T. Jackson, D. Olivier, P. Boger, J. **Mihailidis, A.** ePAD: Engaging Platform for Art Development. The IJCAI 2009 Workshop on Intelligent Systems for Assisted Cognition, Pasadena, CA, July 12, 2009. **Coauthor or Collaborator.**

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Technical Reports

1. **Mihailidis, A.**, Boger, J. Lockton, V. Chibba, M. Sensors and In-Home Collection of Health Data: A Privacy by Design Approach. Report prepared in collaboration with the Information and Privacy Commissioner, Ontario, Canada, 2010. **Principal Author.**

Trade Publications

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2. **Mihailidis, A.**, Davis, J. The potential of intelligent technology as an occupational enabler. OT Now, 2005, January/February, 22-23. [Invited article]. **Principal Author.**
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4. **Mihailidis, A.** An intelligent cognitive orthosis for persons with moderate-to-severe dementia. RESNA News, 2002, Spring, 1, 8. [Invited article]. **Principal Author.**

4. SUBMITTED PUBLICATIONS

Journal Articles

1. Wang, R. **Mihailidis, A.** Assistive Robots in Enabling Occupations with Older Adults and their Caregivers. Canadian Journal of Occupational Therapy. 2014. in-review. Impact Factor 2.57. **Senior Responsible Author.**
2. **Mihailidis, A.**, Melonis, M. Keyfitz, R. Lanning, M. van Vuuren, S. Bodine, C. Pilot testing of a non-linear contextually aware prompting system (N-CAPS) to assist workers with intellectual and developmental disabilities to perform factory assembly tasks. Journal of Neuroengineering and Rehabilitation. 2013. In-review. Impact Factor 2.57. **Principal Author.**
3. Czarnuch, S. **Mihailidis, A.** Depth image hand tracking from an overhead perspective using partially labeled, unbalanced data: Development and real-world testing. Journal of Biomedical and Health Informatics. 2013 (Trainee publication). **Senior Responsible Author.**

Alex MIHAILIDIS

4. Dolatabadi, E. Taati B. **Mihailidis, A.** A Vision-Based Approach for Long-term Mobility Monitoring: A Single Case Study Following Total Hip Replacement. Journal of Rehabilitation Research and Development. 2013 (Trainee publication). **Senior Responsible Author.**
5. Dai, P. Soon, I. Rudzicz, F. **Mihailidis, A.**, Ding, H. 2D Psychoacoustic L-Filter for Robust Speech Recognition System. Speech Communication. 2013. **Coauthor or Collaborator.**

Book Chapters

1. Boger, J. **Mihailidis, A.** Ambient Assisted Living Technologies to Support Psychomotor Function. In: B. O'Neill and A. Gillespie, editor(s). Assistive Technology for Cognition. Oxford (United Kingdom): Psychology Press; 2013. **Co-Principal Author.**

F. Patents and Copyrights

- 2011 Nov Automated emergency detection and response, Patent, Granted, 8,063,764, United States
- 2011 Nov Emergency Detection and Response System and Method, Provisional Patent, Applied, 61/560,640, United States, Boger, J. Ioannou, Y. Gastle, J.

G. Presentations and Special Lectures

1. INTERNATIONAL

Abstracts and Other Papers

- 2013 Jun AAL-WELL: Ambient Assistive Living Technology for Wellness, Engagement, and Long Life. International Association on Gerontology and Geriatrics Conference. Seoul, Seoul Teugbyeolsi [Seoul-T'ukpyolshi], Korea, Republic Of. Presenter(s): Sixsmith, A. Authors: Sixsmith, A. **Mihailidis, A.**, Nygard, L. Astell, A. Role: Co-Lead Author. June 27 - 30. (Peer-reviewed paper presentation). (Trainee Presentation).
- 2012 Nov An Intelligent Nutritional Assessment System. AAAI Fall Symposium on AI for Gerontechnology. Arlington, Virginia, United States. Presenter(s): Eskin, Y. Authors: Eskin, Y. **Mihailidis, A.** Role: Senior Author. November 2 - 4, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Nov An Automated Machine Learning Approach Applied to Robotic Stroke Rehabilitation. AAAI Fall Symposium on AI for Gerontechnology. Arlington, Virginia, United States. Presenter(s): Snoek, J. Authors: Snoek, J. Taati, B. **Mihailidis, A.** Role: Senior Author. November 2 - 4, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Nov An Intelligent Powered Wheelchair for Users with Dementia: Case Studies with NOAH (Navigation and Obstacle Avoidance Help). AAAI Fall Symposium on AI for Gerontechnology. Arlington, Virginia, United States. Presenter(s): Viswanathan, P. Authors: Viswanathan, P. Little, J.J. Mackworth, A. **Mihailidis, A.** Role: Senior Author. November 2 - 4, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Sep Towards a real-time, configurable, and affordable system for inducing sensory conflicts in a virtual environment for post-stroke mobility rehabilitation: vision-based categorization of motion impairments. 9th International Conference Series on Disability, Virtual Reality and Associated Technologies (ICDVRAT). Laval, Mayenne, France. Presenter(s): Taati, B. Authors: Taati, B. Campos, J. Griffiths, J. Gridseth, M. **Mihailidis, A.** Role: Senior Author. September 10 - 12, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Aug Alzheimer's, Technology and Home: A Best Practices Design Guide. 44th Annual International Nordic Ergonomics and Human Factors Society Conference (NES 2012). Stockholm, Södermanlands län [SE-04], Sweden. Presenter(s): Jiancaro, T. Authors: Jiancaro, T. **Mihailidis, A.** Role: Senior Author. Aug 19-

- 22, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jul Evaluation of the Navigation and Obstacle Avoidance Help (NOAH) system for Wheelchair Users with Cognitive Impairment. Alzheimer's Association International Conference (AAIC). Vancouver, British Columbia, Canada. Presenter(s): Viswanathan, P. Authors: Viswanathan, P. Little, J.J. Mackworth, A. **Mihailidis, A.** Role: Senior Author. July 14 - 19, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jul The COACH: A real-world efficacy study. Alzheimer's Association International Conference (AAIC). Vancouver, British Columbia, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.** Role: Senior Author. July 14 - 19, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jul Assessment of product use by older adults with dementia: Defining and analysing usability. Alzheimer's Association International Conference (AAIC). Vancouver, British Columbia, Canada. Presenter(s): Boger, J. Authors: Boger, J. Taati, B. **Mihailidis, A.** Role: Senior Author. July 14 - 19, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jul Assessment of product use by older adults with dementia: Automated Video Analysis. Alzheimer's Association International Conference (AAIC). Vancouver, British Columbia, Canada. Presenter(s): Boger, J. Authors: Taati, B. Boger, J. Snoek, J. **Mihailidis, A.** Role: Senior Author. July 14 - 19, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jul Determining the needs of informal caregivers for smart home user interfaces: a first look. Alzheimer's Association International Conference (AAIC). Vancouver, British Columbia, Canada. Presenter(s): Hwang, A. Authors: Hwang, A. Truong, K. **Mihailidis, A.** Role: Senior Author. July 14 - 19, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 Jun Machine Learning Techniques for Data Mining in Bone Marrow Transplant Records. 54th Annual conference of the Canadian Operational Research Society and the 10th International Conference on Multiple Objective Programming and Goal Programming (CORS/MOPGP'2012). Niagara Falls, Ontario, Canada. Presenter(s): Taati, B. Authors: Taati, B. Snoek, J. Aleman, D. **Mihailidis A.**, Ghavamzadeh, A. Role: Co-Author. June 11 -13, 2012. (Peer-reviewed). (Trainee Presentation).
- 2011 Oct Towards a Pervasive Prompting System: Improving and Expanding the COACH. 7th Annual Every Day Technologies for Alzheimer's Care (ETAC) symposium. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.** Role: Senior Author. October 6 - 7, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 Oct Design and validation of a model for assessment of a procedural skill in open surgery. American College of Surgeons 97th Annual Clinical Congress. San Francisco, California, United States. Presenter(s): Rittenhouse, N. Authors: Rittenhouse, N. Sharma, B. Sonnadara, R. **Mihailidis, A.**, Grantcharov, T. Role: Contributing author. October 23 - 27, 2011. (Peer-reviewed). (Trainee Presentation).
- 2010 Dec Adaptive Prompting for Intelligent Wheelchairs. NIPS Workshop on Machine Learning for Assistive Technologies. Whistler, British Columbia, Canada. Presenter(s): Viswanathan, P. Authors: Viswanathan, P. Little, J.J. Mackworth, A. **Mihailidis, A.** Role: Senior Author. December 10, 2010. (Peer-reviewed). (Trainee Presentation).
- 2010 Nov The Development of an Automated Prompting System to Help Teach Children with Autism Spectrum Disorder Self-Care Activities. Geneva Centre for Autism International Symposium. Toronto, Ontario, Canada. Presenter(s): Boger, J. Bimbrahw, J. Authors: Bimbrahw, J. Boger, J. Monroy, V. Mihailidis, A. Role: Primary/senior author. November 3 – 5, 2010. (Peer-reviewed poster presentation).
- 2010 May 27 Examining effective communication strategies employed by caregivers assisting individuals with Alzheimer's disease during oral care. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): Wilson, R. Authors: Wilson, R. Rochon, E. **Mihailidis, A.** Role: Co-senior author. May 27 – 30, 2010. (Peer-reviewed poster presentation). Gerontechnology, 9(2), 339. (Trainee Presentation).
- 2010 May 27 Anti-collision and navigation system for powered wheelchairs. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): How, T.V. Authors: How, T.V.

- Mihailidis, A.** Role: Senior author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 289. (Trainee Presentation).
- 2010 May 27 The future of powered mobility: Intelligent wheelchairs. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): Viswanathan, P. Authors: Viswanathan, P. Little, J.J. Mackworth, A. **Mihailidis, A.** Role: Co-senior author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 140-141. (Trainee Presentation).
- 2010 May 27 The application of the COACH prompting system to nutrition related activities among older adults. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.** Panel Presentation. Authors: Mihailidis, A. Eskin, Y. Rochon, E. Astell, A. Adlam, T. Role: Primary Author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 128-129.
- 2010 May 27 An intelligent fall detection and personal emergency response system to help keep seniors safe at home. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.** Panel Presentation. Role: Primary Author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 88-89.
- 2010 May 27 Canada-UK initiatives on technology and dementia. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): Adlam, T. **Mihailidis, A.** Panel Presentation. Role: Primary Co-author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 68.
- 2010 May 27 Automated detection of falls in the home: Current challenges and future directions. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): Taati, B. Authors: Snoek, J. Taati, B. **Mihailidis, A.** Role: Senior Author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 248. (Trainee Presentation).
- 2010 May 27 An automated, speech-based emergency response system for the older adult. International Society for Gerontechnology, 7th World Conference. Vancouver, British Columbia, Canada. Presenter(s): Young, V. Authors: Young, V. **Mihailidis, A.** Role: Senior author. May 27 – 30, 2010. (Peer-reviewed). Gerontechnology, 9(2), 261. (Trainee Presentation).
- 2010 Mar Communication strategies employed by formal caregivers assisting individuals with moderate-severe Alzheimer's disease during activities of daily living: A mixed methods approach. 26th International Conference of Alzheimer's Disease International. Toronto, Ontario, Canada. Presenter(s): Wilson, R. Authors: Wilson, R. Rochon, E. **Mihailidis, A.** Role: Co-Supervisor/Senior Author. March 26-29, 2011. (Peer-reviewed poster presentation). (Trainee Presentation).
- 2008 Nov Sit to Stand Detection and Analysis. AAAI 2008 Fall Symposium Series - AI in Eldercare: New Solutions to Old Problems. Arlington, Virginia, United States. Presenter(s): Allin, S. **Mihailidis, A.** Panel Presentation - Passive Sensing with Vision. Role: Senior Author. November 7-9, 2008. (Peer-reviewed).
- 2008 Oct Prompting strategies used to develop handwashing skills in children with autism spectrum disorder (ASD). Geneva Centre for Autism International Symposium. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Authors: Kalales, D. Ribaille, C. Boger, J. Monroy, V. Mihailidis, A. Role: Senior Author. October 22-24, 2008. (Peer-reviewed poster presentation).
- 2008 Jul The usability of everyday products by older adults with dementia. International Conference on Alzheimer's Disease. Chicago, Illinois, United States. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Boger, J. Fenton, K. Craig, T. Li, Z. Role: Principal Author. July 26-30, 2008. (Peer-reviewed poster presentation).
- 2008 Jun The future of smart home systems for cognitive impairment. Rehabilitation Engineering and Assistive Technology Society of North America Annual Conference (RESNA). Washington, District of Columbia, United States. Presenter(s): **Mihailidis, A.** Workshop. Role: Principal Author. June 26-30, 2008. (Peer-reviewed).
- 2008 Jun Control of multiple degree-of-freedom tasks using one-dimensional electroencephalographic signals. The 28th Neural Interfaces Conference. Cleveland, Ohio, United States. Presenter(s): Sanin, E. Authors: Sanin, E. Chin-Marquez, C. Silva, J. Chau, T. **Mihailidis, A.**, Popovic, M.R. Role: Contributing Author. June 16 – 18, 2008. (Peer-reviewed poster presentation).

Alex MIHAILIDIS

- 2007 Oct Examining effective communication strategies used by formal caregivers when interacting with Alzheimer's disease residents during an activity of daily living (ADL). The 45th Annual Meeting of the Academy of Aphasia. Washington, District of Columbia, United States. Presenter(s): Wilson, R. Authors: Wilson, R. Rochon, E. **Mihailidis, A.**, Leonard, C. Lim, M. & Cole, A. Role: Co-Senior Author. October 21 - 23, 2007. (Peer-reviewed). Brain and Language 103(1-2), 199-200. (Trainee Presentation).
- 2007 Jun A simple, intuitive, and non-restraining robotic haptic platform to deliver reaching motion therapy for people with stroke-induced hemiplegia. Advances in Neurorehabilitation Conference. Toronto, Ontario, Canada. Presenter(s): Lam, P. Authors: Lam, P, Hebert, D. **Mihailidis, A.** Role: Senior Author. June 16 - 19, 2007. (Peer-reviewed). (Trainee Presentation).
- 2006 Jul The 'MOR-PLAY' Project: Designing a Robotic Play Tool with Young Power Wheelchair Users. Centre for the Study of Childhood and Youth International Conference: Childhood and Youth, Choice and Participation. Sheffield, United Kingdom. Presenter(s): Silva, J. Authors: Silva, J. McKeever, P. **Mihailidis, A.**, Chau, T. Role: Co-senior Author with T. Chau—as we are co-supervisors of J. Silva we alternate last authorship. July 4 - 6, 2006. (Peer-reviewed). (Trainee Presentation).
- 2006 Jul Getting a grip on stairs: Research to optimize effectiveness of handrails. The 16th International Ergonomics Association World Congress on Ergonomics. Maastricht, Netherlands. Presenter(s): Maki, B. Authors: Maki, B. Perry, S.D. Scovil, C. **Mihailidis, A.**, Fernie, G.R. Role: Contributing Author. July 10 14, 2006. (Peer-reviewed).
- 2006 Apr Communicating with Alzheimer patients: Investigating successful communication strategies. Cognitive Aging Conference 2006. Atlanta, Georgia, United States. Presenter(s): Wilson, R. Authors: Wilson, R. Rochon, E. **Mihailidis, A.** Role: Co-senior Author with E. Rochon-- as we are co-supervisors of R. Wilson we alternate last authorship. April 20 - 23, 2006. (Peer-reviewed). (Trainee Presentation).
- 2006 Feb An automated tool for detecting and preventing unsafe stair use by older adults. International Conference on Aging, Disability and Independence. St. Petersburg, Florida, United States. Presenter(s): Snoek, J. Authors: Snoek, J. **Mihailidis, A.**, Maki, B. Hoey, J. Role: Senior Author. February 1 - 5, 2006. (Peer-reviewed). (Trainee Presentation).
- 2005 May Electronic memory aids for women with traumatic brain injury. Canadian Association of Occupational Therapy Annual Conference. Vancouver, British Columbia, Canada. Presenter(s): Dry, A. Authors: Dry, A. **Mihailidis, A.**, Colantonio, A. Cameron, J. Role: Co-senior Author. May 26 - 28, 2005. (Peer-reviewed). (Trainee Presentation).
- 2004 May Mobility and manoeuvrability in a powered wheelchair. Institute of Medical Science, University of Toronto, Scientific Day. Toronto, Ontario, Canada. Presenter(s): Holliday, P.J. Authors: Holliday, P.J. Fernie, G. Rolfson, R. Lim, M. **Mihailidis, A.**, Pacitto, M. Role: Contributing Author. May 11, 2004. (Peer-reviewed).
- 2002 Nov Intelligent supportive home environments for older adults with dementia: Current and future Research. Fourth International Conference on Gerontechnology - The International Society for Gerontechnology Conference. Miami Beach, Florida, United States. Presenter(s): **Mihailidis, A.** Role: Principal Author. November 9 - 12, 2002 (Peer-reviewed). Gerontechnology (Congress Issue), 2 (1), 133.
- 2002 Nov Does sideways movement increase mobility and maneuverability in a powered wheelchair? Fourth International Conference on Gerontechnology - The International Society for Gerontechnology Conference. Miami Beach, Florida, United States. Presenter(s): Holliday, P. Authors: Holliday, P. **Mihailidis, A.**, Rolfson, R. Fernie, G. Role: Contributing Author. November 9 - 12, 2002. (Peer-reviewed). Gerontechnology (Congress Issue), 2 (1), 99.
- 2002 Jul The importance of context-aware principles in the development of cognitive devices. The Fifth International ACM SIGCAPH Conference on Assistive Technologies. Edinburgh, Scotland, United Kingdom. Presenter(s): **Mihailidis, A.** Panel Presentation. Role: Principal Author. July 8 - 10, 2002. (Peer-reviewed).
- 2001 Sep Intelligent automated cueing to guide people with dementia through ADL tasks. International Conference on Technology and Aging. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Fernie, G. Barbenel, J. Role: Principal Author. September 12 - 14, 2001. (Peer-reviewed poster)

presentation). Abstracts: 111.

- 2001 Sep The functional value of sideways movement in a powered chair. International Conference on Technology and Aging. Toronto, Ontario, Canada. Presenter(s): Fernie G. Authors: Rolfson, R. **Mihailidis, A.**, Frydrych, P, and Fernie G. Role: Contributing Author. September 12 - 14, 2001. (Peer-reviewed poster presentation). Abstracts: 111.
- 2001 Jul The COACH: A computerized cueing device to help people with dementia to be more independent. The 17th World Congress of the International Association of Gerontology. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Fernie, G.R. Barbenel, J.C. Role: Principal Author. July 1 - 6, 2001. (Peer-reviewed). Gerontology, 47(Suppl. 1), 388.

Invited Lectures and Presentations

- 2014 May 22 **Invited Speaker.** Assistive Technology for People with Dementia and the Caregivers. University of California-San Diego ADRC. San Diego, California, United States. Presenter(s): **Mihailidis, A.**
- 2013 Nov 11 **Invited Speaker.** AAL-WELL: Ambient Assistive Living Technology for Wellness, Engagement, and Long Life. Karolinska Institute. Stockholm, Stockholms län [SE-01], Sweden. Presenter(s): **Mihailidis, A.**
- 2013 Sep 18 **Invited Speaker.** The Tokushima Agreement: Where to Next? AAATE Annual Conference. Villaneuva, Algarve, Portugal. Presenter(s): **Mihailidis, A.**
- 2013 Jul 13 **Invited Speaker.** The Use of Mobile Robotics to Support Older Adults with Dementia in the Home. Technology Professional Interest Area Workshop, Alzheimer Association International Conference. Boston, Massachusetts, United States. Presenter(s): **Mihailidis, A.**
- 2013 Apr 17 **Invited Speaker.** Current and future trends in ICT for People with Disabilities: How RESNA is helping to lead the way. National Institute for Disability and Rehabilitation Research (NIDRR), US Department of Education. Washington, District of Columbia, United States. Presenter(s): **Mihailidis, A.**
- 2013 Feb 25 **Invited Speaker.** Assistive Technology Quality Assurance. Centric HME Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2013 Feb 23 **Keynote Speaker.** Advancing the state of the science of rehab technologies. Symposium on Special Seating, Wheeled Mobility, and Advanced Technology. Kowloon, Unknown, Hong Kong. Presenter(s): **Mihailidis, A.**
- 2013 Feb 21 **Invited Speaker.** Disrupting the current technology and aging landscape. Workshop on Intelligent Assistive Technology - Hospital Authority. Kowloon, Unknown, Hong Kong. Presenter(s): **Mihailidis, A.**
- 2013 Feb 21 **Invited Speaker.** The use of robotics in rehabilitation and in the support of health and wellness. Workshop on Intelligent Assistive Technology - Hospital Authority. Kowloon, Unknown, Hong Kong. Presenter(s): **Mihailidis, A.**
- 2012 Nov 8 **Invited Lecturer.** Disruptive Technologies for Elder Care and Wellness. Washington State University, NSF IGERT Distinguished Speaker Series. Pullman, Washington, United States. Presenter(s): **Mihailidis, A.**
- 2012 Sep 25 **Invited Speaker.** Intelligent Home Systems for Elder Care and Wellness. RERC on Aging State of the Science Conference. Los Angeles, California, United States. Presenter(s): **Mihailidis, A.**
- 2012 Mar 27 **Invited Speaker.** Autonomous Monitoring of Safety and Abnormal Behaviors Using Environmental-Based Technology. Liberty Mutual Research Institute. Boston, Massachusetts, United States. Presenter(s): **Mihailidis, A.**
- 2012 Mar 23 **Invited Speaker.** Technology Applications to Support Health and Wellness of Older Adults. International Brain Injury Association Conference. Edinburgh, United Kingdom. Presenter(s): **Mihailidis, A.** Invited Workshop Speaker.

Alex MIHAILIDIS

- 2012 Feb 26 **Keynote Speaker.** Can Robots Really Improve Wellness and Occupation? International Occupational Therapy Conference. Hong Kong, Hong Kong. Presenter(s): **Mihailidis, A.**
- 2011 Sep 23 **Keynote Speaker.** Technology for Dementia: Disrupting the Current Landscape. Global Research Alzheimer Summit. Madrid, Spain. Presenter(s): **Mihailidis, A.**
- 2011 Aug 29 **Keynote Speaker.** Advances in Rehab Robotics: The design of an affordable, intelligent robotic system for upper limb rehabilitation. MARS (Machines Assisting Recovery from Stroke) 2011 Annual Meeting. Chicago, Illinois, United States. Presenter(s): **Mihailidis, A.**
- 2011 Mar 29 Supporting the safety of older adults with dementia through technology. Alzheimer's Disease International Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Boger, J.
- 2010 Jul 23 Intelligent home systems to support aging-in-place. Oregon Health Sciences University. Portland, Oregon, United States. Presenter(s): **Mihailidis, A.**
- 2010 Jul 15 The use of actors in the design of technologies for older adults with dementia. International Conference on Alzheimer's Disease (ICAD). Honolulu, Hawaii, United States. Presenter(s): **Mihailidis, A.**
- 2010 Mar 16 Intelligent systems and homes to support older adults at home. NCOA-ASA Aging in America Annual Conference. Chicago, Illinois, United States. Presenter(s): **Mihailidis, A.**
- 2009 May 22 Developing intelligent systems for older adults. Scott Named Professor Lectureship, Mayo Clinic. Rochester, Minnesota, United States. Presenter(s): **Mihailidis, A.**
- 2009 Mar 18 The development of intelligent systems to support older adults and aging-in-place. Distinguished Lecture in Computer Science, University of Dundee. Dundee, Scotland, United Kingdom. Presenter(s): **Mihailidis, A.**
- 2009 Mar 17 The development of intelligent systems to support older adults and aging-in-place. Lecture Series in Informatics, University of Edinburgh. Edinburgh, Scotland, United Kingdom. Presenter(s): **Mihailidis, A.**
- 2008 Jul 30 Intelligent Systems to Support Health and Wellness. International Conference on Alzheimer's Disease. Chicago, Illinois, United States. Presenter(s): **Mihailidis, A.**
- 2008 Feb 12 Intelligent Homes for Older Adults. Distinguished Lecture Series, Utah State University. Logan, Utah, United States. Presenter(s): **Mihailidis, A.**
- 2007 Oct 11 The use of artificial intelligence to support older adults: The COACH system. University of Rochester / Microsoft Research Assisted Cognition Workshop. Rochester, New York, United States. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Hoey, J.
- 2006 Nov 11 The use of pervasive computing to support older adults. National Center for Rehabilitation and Disability. Tokorozawa, Japan. Presenter(s): **Mihailidis, A.**
- 2005 Nov 20 **Invited Roundtable Member.** Obtaining funding to support Alzheimer's disease research. Gerontological Society of America Annual Conference. Orlando, Florida, United States. Presenter(s): **Mihailidis, A.**
- 2005 Oct 18 An intelligent environment to support aging-in-place and independence. ORCATECH Speaker Series on Aging and Technology, Oregon Institute of Technology. Portland, Oregon, United States. Presenter(s): **Mihailidis, A.**
- 2004 Dec 2 Context and Assistive Technology. Department of Occupational Therapy, University of Pittsburgh. Pittsburgh, Pennsylvania, United States. Presenter(s): **Mihailidis, A.**
- 2004 Dec 1 Intelligent Supportive Environments for Older Adults. Human-Computer Interaction Institute Seminar Series, Carnegie Mellon University. Presenter(s): **Mihailidis, A.**
- 2002 Oct 18 Intelligent supportive environments for people with dementia. Department of Computer Science, University of Washington. Presenter(s): **Mihailidis, A.**

Media Appearances

2010 Apr 20 Interview - I was asked to provide an expert response to an upcoming journal article that will appear in the New England Journal of Medicine on findings from a RCT conducted with the MIT-MANUS robot for stroke rehabilitation. MIT-Press.

Invited Workshop

2013 Feb 18 **Invited Lecturer.** Assistive Technology, Design, and the Environment. Hospital Authority. Kowloon, Unknown, Hong Kong. Presenter(s): **Mihailidis, A.** Organized and presented a 3 day workshop to occupational therapists at the Hospital Authority in Hong Kong.

2. NATIONAL

Abstracts and Other Papers

- 2013 May Enabling senior citizenship through interdisciplinary collaboration: The Age-CAP app. Annual Conference of the Canadian Association of Occupational Therapists. Victoria, British Columbia, Canada. Presenter(s): Trentham, B. Authors: Trentham, B. Bhatnagar, M. Jimmou, J. Mihailidis, A. Role: Senior Author. May 29 - June 1, 2013. (Peer-reviewed paper presentation). (Trainee Presentation).
- 2012 Jun The COACH: A real-world effectiveness study. Canadian Student Health Research Forum. Winnipeg, Manitoba, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.** Role: Senior Author. June 12 - 14, 2012. (Peer-reviewed). (Trainee Presentation).
- 2011 Oct The COACH prompting system: Determining and understanding the needs of caregivers and older adults with dementia. 6th Annual Canadian Conference on Dementia. Montreal, Quebec, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.** Role: Senior Author. October 27 - 29, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 Jun Engaging older adults with dementia in creative occupations using technology. Canadian Association of Occupational Therapists Annual Conference. Saskatoon, Saskatchewan, Canada. Presenter(s): Leuty, V. Authors: Leuty, V. Boger, J. Hoey, J. Young, L. **Mihailidis, A.** Role: Senior Author. June 15-18, 2011. (Peer-reviewed). (Trainee Presentation).
- 2010 Dec A novel multimodal platform for assessing surgical training skills. Ontario Simulation Exposition. Toronto, Ontario, Canada. Presenter(s): Sonnadara, R.R. Authors: Sonnadara, R.R. Khan, A. Leung, A. **Mihailidis, A.**, Rittenhouse, N. Role: Contributing Author. December 2, 2010. (Peer-reviewed abstract and presentation).
- 2010 May 26 Medical professionals' knowledge and perception of occupational therapy. Annual Conference of the Canadian Association of Occupational Therapists. Halifax, Nova Scotia, Canada. Presenter(s): Badun, M. Authors: Badun, M. **Mihailidis, A.**, Trentham, B. Role: Co-senior Author. May 26 - 29, 2010. (Peer-reviewed paper presentation). (Trainee Presentation).
- 2008 Jun Robotics: A new frontier to enable occupation. Annual Conference of the Canadian Association of Occupational Therapists. Whitehorse, Yukon, Canada. Presenter(s): Hebert, D. Authors: Hebert, D. Lam, P. Kan, P. Apkarian, J. Lacheray, H. Gardner, D. **Mihailidis, A.** Role: Senior Author. June 12 - 14, 2008. (Peer-reviewed paper presentation).
- 2007 Jul Navigating the university-learning environment: Experiences of physically disabled students. Annual Conference of the Canadian Association of Occupational Therapists. St. John's, Canada. Presenter(s): Guenther, S. Authors: Guenther, S. Trentham, B. **Mihailidis, A.**, Niles-Campbell, N. Role: Co-Senior Author. July 11 - 14, 2007. (Peer-reviewed paper presentation).
- 2007 Feb An intelligent powered wheelchair to enable mobility in older adults with cognitively impairments. 2007 Vancouver Society for Cognitive Science Conference. Vancouver, British Columbia, Canada.

- Presenter(s): Viswanathan, P. Authors: Viswanathan, P. Boger, J. Hoey, J. Elinas, P. Little, J. Mackworth, A. **Mihailidis, A.** Role: Senior Author. February 2-3, 2007. (Peer-reviewed). (Trainee Presentation).
- 2006 Oct Research to optimize effectiveness of handrails. Special Joint CAG/CIHR Institute on Aging Symposium 1 on Innovative Approaches to Optimize Balance and Mobility in Older Adults. Quebec City, Quebec, Canada. Presenter(s): Maki, B. 35th Annual Scientific and Educational Meeting of the Canadian Association of Gerontology. Authors: Maki, B. Scovil, C. Corbeil, P. Perry, S. Gorski, S. Lever, A. Holliday, P. **Mihailidis, A.**, Hoey, J. Snoek, J. and Fernie, G. Role: Contributing Author. October 26 - 28, 2006. (Invited Peer-reviewed abstract presentation).
- 2006 Oct Innovative rehabilitation research for people in challenging environments. Special Joint CAG/CIHR Institute on Aging Symposium 1 on Innovative Approaches to Optimize Balance and Mobility in Older Adults. Quebec City, Quebec, Canada. Presenter(s): Fernie, G.R. 35th Annual Scientific and Educational Meeting of the Canadian Association of Gerontology. Authors: Fernie, G.R. **Mihailidis, A.**, Row, B. Role: Contributing Author. October 26 - 28, 2006. (Invited Peer-reviewed abstract presentation).
- 2006 May Comparing hand hygiene adherence rates for existing hand hygiene products with a new personal alcohol hand rub dispenser (GelFast). Canadian Hospital Infection Control Association (CHICA) Annual Conference. London, Ontario, Canada. Presenter(s): Moore, T.C. Authors: Moore, T.C. Tong, A. Shoham, G. Lo, J. Parks, S. McGeer, A. **Mihailidis, A.** Role: Senior Author. May 6 – 10, 2006. (Peer-reviewed).
- 2005 Oct The Alzheimer patient-formal caregiver dyad: An investigation of optimal verbal and non- verbal Components of Successful communication. 3rd Canadian Colloquium on Dementia. Ottawa, Ontario, Canada. Presenter(s): Wilson, R. Authors: Wilson, R. Rochon, E. **Mihailidis, A.** Role: Co-senior Author with E. Rochon-- as we are co-supervisors of R. Wilson we alternate last authorship. October 26 - 29, 2005. (Peer-reviewed poster session). (Trainee Presentation).
- 2002 Sep The development of an intelligent supportive home environment for older adults with dementia. TechMed Show. London, Ontario, Canada. Presenter(s): **Mihailidis, A.** Role: Principal Author. September 26 - 27, 2002. (Peer-reviewed).
- 2001 Apr The use of an intelligent cueing device for activities of daily living. Alzheimer Society of Canada Annual Conference. Halifax, Nova Scotia, Canada. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Fernie, G. Role: Principal Author. April 2001. (Peer-reviewed).

Invited Lectures and Presentations

- 2013 Nov 16 **Invited Speaker.** Integrating emerging technologies to support aging-in-place and seniors with dementia in the community. CIHR Best Brains Exchange. Saint John, New Brunswick, Canada. Presenter(s): **Mihailidis, A.**
- 2011 Oct 17 **Plenary Speaker.** Intelligent Systems and Homes to Support Health, Wellness, and Rehabilitation. Mobile Health Symposium. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2011 Jun 16 **Invited Speaker.** Developing Intelligent Systems to Support Health and Wellness: Approaches and Examples. hSITE Conference. Montreal, Quebec, Canada. Presenter(s): **Mihailidis, A.** Keynote.
- 2010 Apr 17 The COACH Intelligent Prompting System for People with Dementia. Canadian Geriatrics Society Annual Meeting. Ottawa, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2010 Apr 17 HELPER: Intelligent Emergency Response and Health Monitoring System. Canadian Geriatrics Society Annual Meeting. Ottawa, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2010 Jan 29 The use of robotics in stroke rehabilitation: The state of the art and implications for practice. The 9th Stroke Symposium and 31st Annual Meeting of the Inter-Urban Stroke Academic Association. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Keynote Presentation.
- 2009 Oct 2 Technology for older adults with dementia. Canadian Conference on Dementia. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Invited Workshop.

Alex MIHAILIDIS

- 2008 Mar 6 Advances in smart home technologies at the University of Toronto. Aging at Home Summit. Woodbridge, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2007 May 29 EDMONTON II: Enhancing Safety in Home, Community and Long Term Care. Aging at Home Summit. Edmonton, Alberta, Canada. Presenter(s): **Mihailidis, A.**
- 2006 Sep 27 Rehabilitation technologies: What makes them usable and desirable? Shaping the Future of Health Innovation Research in Canada. Montreal, Quebec, Canada. Presenter(s): **Mihailidis, A.**
- 2002 Oct 2 Development of Cognitive Devices for People with Dementia. Biomedical Engineering Seminar Series, Biomedical Engineering Department, Vancouver General Hospital. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.**

Media Appearances

- 2011 Nov 16 "Toronto lab recreates the world-- and may revolutionize research" - Interview and print article. National Post. Ontario, Canada.
- 2011 Feb 4 "The Future Is...". Canadian Business Magazine.
- 2010 Aug 12 "Meet Brian, your robot care provider". The Globe and Mail. Print article.
- 2008 Sep 1 "Innovators: U of T's 'talking washroom' guy". The Toronto Star. Print article.
- 2008 Apr 3 "Technology for children with autism". CBC Radio, Here and Now. Radio interview.
- 2007 Mar 30 "Touchy robot spurs stroke patients to move". The Globe and Mail. Print article.
- 2007 Feb 23 "Artificial intelligence to help dementia sufferers". The Globe and Mail. Print article.
- 2007 Jan 26 "Artificially intelligent homes for Alzheimer's patients coming: Scientists". CBC News. Print article.
- 2006 May 5 "High tech with a human touch". Report on Business Magazine (The Globe and Mail). Print article.
- 2006 "Artificial intelligence on the move". Rehab & Community Care Medicine (Vol 15, No 1), Spring 2006. Print article.
- 2005 Nov 24 "Wheelchair Anti-Collision System". CTV Canada AM. Interview and TV segment.
- 2005 Nov 23 "U of T, UBC Researchers Win Design Competition for Anti-Collision Wheelchair". National Post. Print article.
- 2005 Nov 21 "Wheelchair Anti-Collision System". CBC Radio 1, Here & Now Show. Interview.
- 2004 Nov 23 "Fall Detection System Gets Help to Seniors Faster". NSERC Web Feature. Interview and print article.
- 2004 Sep 10 "Intel funds IT projects to ease life for People with Alzheimer's". Computing Canada. (Grant Buckler). Print article.
- 2004 Sep 5 "What Researchers at Toronto University Are Doing for Alzheimer's Disease". Medical News Today. Print article.
- 2004 Sep 2 "U of T Alzheimer's research teams get cash injection of US\$400,000". Silicon Valley North. (Suzannah Archibald). Interview and print article.
- 2004 Aug 31 "Intel funds IT projects to ease life with Alzheimer's". IT Business.ca. (Grant Buckler). Interview and print article.
- 2003 Feb 6 "Helping Alzheimer's Patients". Simon Fraser University News. (Diane Luckow). Interview and print article.

3. PROVINCIAL / REGIONAL

Invited Lectures and Presentations

- 2013 Jun 10 **Invited Speaker.** Autonomous Monitoring of Safety and Abnormal Behaviors on the Stairs Using Environmental-Based Technology. Falls & Mobility Day. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2013 Apr 6 **Invited Speaker.** Advancing technology to enhance wellness for seniors and to support aging at home. Southlake Regional Geriatric Clinic Day. Newmarket, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2013 Mar 7 **Distinguished Lecturer.** Technologies to Help Older Adults Live Healthier and Safer Lives. University of Regina Centre on Aging and Health 2012-2013 Distinguished Lecture. Regina, Saskatchewan, Canada. Presenter(s): **Mihailidis, A.**
- 2011 Sep 15 **Invited Speaker.** Technology to support aging-in-place: A look at the evidence and technology landscape. CIHR / BC Ministry of Health. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.** CIHR Best Brains Exchange with the BC Ministry of Health.
- 2001 May 25 The use of technology in developing supportive environments for people with dementia. Alzheimer Society of Ontario Conference on Design. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Mihailidis, A. Fernie, G. Invited Presentation and Paper, 154 – 160.

Media Appearances

- 2014 Jun 22 Robotics and eldercare. CBC Radio Spark. Canada. Radio interview and podcast.
- 2013 Mar 5 "Technologies to help seniors" - Interview and print article. Saskatoon Leader-Post. Saskatchewan, Canada.
- 2013 Jan 10 COACH for Autism. CBC Toronto Evening News. Interview and TV segment.
- 2009 Oct 19 "Automated fall detection system". CP24 Television. Interview and TV segment.
- 2008 Oct 19 "Technology and an aging population". OMNI Television. Interview and TV segment.
- 2007 Mar 29 "Intelligent robotic device for stroke rehabilitation". CTV-CFTO Evening News. Interview and TV segment.
- 2007 Jan 31 "Smart homes for people with Alzheimer's disease". SunTV, Canoe Live. Interview and TV segment.
- 2007 Jan 25 "Smart homes for people with Alzheimer's disease". CKJB Radio. Live radio interview.
- 2007 Jan 23 "Smart homes for people with Alzheimer's disease". CTV Evening News. Interview and TV segment.
- 1998 May 25 Video taped segment on The Talking Washroom. CTV Evening News. (Avis Favro).

4. LOCAL

Abstracts and Other Papers

- 2013 Nov The COACH: An automated daily task support for older adults with dementia. Toronto Rehab's 9th Annual Research Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. & Mihailidis, A. Role: Senior Author. November 26, 2013. (Peer-reviewed). (Trainee Presentation).
- 2013 Nov DIY Smart Home: Narrowing the gap between users and technology. Toronto Rehab's 9th Annual Research Day. Toronto, Ontario, Canada. Presenter(s): Hwang, A. Authors: Hwang, A. Liu, M. Hoey, J. Mihailidis, A. Role: Co-senior Author. November 26, 2013. (Peer-reviewed). (Trainee Presentation).

- 2012 May A community-based efficacy study of the COACH. IBBME Scientific Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.** Role: Senior Author. May 7, 2012. (Peer-reviewed). (Trainee Presentation).
- 2012 May What informal caregivers want in smart home user interfaces: the tensions that challenge the design. Rehabilitation Sciences Sector Showcase: Charting New Territory in Research and Education, University of Toronto. Toronto, Ontario, Canada. Presenter(s): Hwang, A. Authors: Hwang, A. Truong, K. **Mihailidis, A.** Role: Senior Author. May 2, 2012. (Trainee Presentation).
- 2011 Nov Determining Technical Design Criteria for the COACH Prompting System. Toronto Rehab's 7th Annual Research Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. **Mihailidis, A.**, Boger, J. Role: Senior Author. November 17, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 Nov Bringing C.O.A.C.H. one step closer to the home: Designing a computer-based tool for dementia caregivers. Toronto Rehab's 7th Annual Research Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Hwang, A. Truong, K. Czarnuch, S. **Mihailidis, A.**, Role: Senior Author. November 17, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 Nov Relational Approach to Knowledge Engineering for POMDP-based Assistance Systems with Encoding of a Psychological Model. Toronto Rehab's 7th Annual Research Day. Toronto, Ontario, Canada. Presenter(s): Grzes, M. Authors: Grzes, M. Hoey, J. Khan, S. **Mihailidis, A.**, Czarnuch, S. Jackson, D. Monk, A. Role: Co-Author. November 17, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 May Supporting Older Adults with Dementia with Ambient Assistive Living Technology. IBBME Scientific Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. Boger, J. **Mihailidis, A.** Role: Senior Author. May 19, 2011. (Peer-reviewed). (Trainee Presentation).
- 2011 Mar COACH@Home: Participatory Design of AT for People with Dementia. Caregiving Best Practices Day. Toronto, Ontario, Canada. Presenter(s): Czarnuch, S. Authors: Czarnuch, S. Boger, J. **Mihailidis, A.** Role: Senior Author. March 4, 2011. (Peer-reviewed). (Trainee Presentation).
- 2010 Sep Wii remote hand tracking: A novel approach to the objective assessment of surgical skills. Royal College of Physicians and Surgeons of Canada Simulation Summit. Toronto, Ontario, Canada. Presenter(s): Rittenhouse, N. Authors: Rittenhouse, N. Khan, A. Drozdal, G. **Mihailidis, A.**, Sonnadara, R. Role: Supervisory Committee Member. September 27, 2010. (Peer-reviewed). (Trainee Presentation).
- 2006 Nov The development of an intelligent haptic upper-limb stroke rehabilitation device. Compilation of Research Posters: Second Annual Toronto Rehabilitation Institute Research Day. Toronto, Ontario, Canada. Presenter(s): Kan, P. Lam, P. Authors: Kan, P. Lam, P. Boger, J. Hebert, D. Hill, S. Boutilier, C. **Mihailidis, A.** Role: Senior Author. November 29, 2006. (Peer-reviewed). (Trainee Presentation).
- 2006 Apr Determining successful communication strategies during interactions between Alzheimer patients and formal caregivers. Celebrating Innovations in Health Care Expo. Toronto, Ontario, Canada. Presenter(s): Wilson, R. Boger, J. Authors: Wilson, R. Boger, J. **Mihailidis, A.**, and Rochon, E. Role: Co-senior Author with E. Rochon-- as we are co-supervisors of R. Wilson we alternate last authorship. April 19, 2006. (Peer-reviewed). (Trainee Presentation).

Invited Lectures and Presentations

- 2014 Jun 9 **Keynote Speaker.** High Tech Helpers—Improving the Lives of Dementia Patients Through Technology. VHA - Heart of Home Care Awards. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2014 May 26 **Invited Speaker.** Intelligent Design: Innovations Supporting Independence and Aging-in-Place. Toronto Reference Library - Boomers and Beyond Series. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2013 Oct 26 **Keynote Speaker.** The Promise of Technology to Support Caregivers and People with Dementia. Toronto Western Hospital, Dementia Caregivers' Appreciation/Information Day. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**

Alex MIHAILIDIS

- 2013 Jun 27 **Keynote Speaker.** Helping Seniors with Dementia Live Better and Safer Lives Through the User of Technology. Mount Sinai Geriatrics Institute Annual Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2013 May 1 **Invited Keynote.** Disrupting the technology and aging landscape through advanced approaches and systems. CREI Annual Meeting, University of Sherbrooke. Sherbrooke, Quebec, Canada. Presenter(s): **Mihailidis, A.**
- 2013 Feb 12 **Invited Speaker.** Disrupting the current technology and aging landscape. Health Innovations Series - Toronto Rehab. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2012 Mar 30 **Invited Speaker.** Disruptive Technologies for Elder Care and Wellness. HCTP - Healthcare, Technology and Place Annual Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2012 Mar 21 **Invited Speaker.** Innovations in technology for Alzheimer's care. Toronto Memory Program - Rounds. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Rounds at TMP.
- 2012 Feb 2 **Invited Speaker.** Intelligent systems to support aging in place: Approaches and examples. Institute of Life Course and Aging, University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2012 Jan 26 **Presenter.** Technology Applications for Alzheimer's Disease. CIHR Cafe Scientifique. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2012 Jan 24 **Presenter.** Technology to support seniors in the community. CIHR Cafe Scientifique. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2011 Sep 16 **Invited Lecturer.** Technology Applications for Dementia. Department of Gerontology, Simon Fraser University. Vancouver, British Columbia, Canada. Presenter(s): **Mihailidis, A.** Gerontology Free Lecture Series.
- 2011 May 25 **Invited Lecturer.** Advanced Home Technologies to Support Safety and Health at Home. University of Alberta. Edmonton, Alberta, Canada. Presenter(s): **Mihailidis, A.**
- 2011 May 18 **Invited Lecturer.** Intelligent Systems to Support Older Adults with Dementia in Self-care and Leisure Activities. University of Alberta. Edmonton, Alberta, Canada. Presenter(s): **Mihailidis, A.**
- 2011 May 11 **Invited Lecturer.** Developing Intelligent Systems to Support Health, Wellness, and Rehabilitation: New Techniques, Approaches, and Frontiers. University of Alberta. Edmonton, Alberta, Canada. Presenter(s): **Mihailidis, A.**
- 2011 May 10 **Invited Lecturer.** The COACH Jr: A Smart Home System to Teach Children with Autism Self-Care Activities. University of Alberta. Edmonton, Alberta, Canada. Presenter(s): **Mihailidis, A.** Technology Forum.
- 2010 Feb 18 Technology applications for people with dementia. Dr. Albin T. Jousse Lecture Series, Lyndhurst Hospital. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2009 Nov 27 The COACH prompting system for older adults: An efficacy study. Baycrest Rounds. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2009 Oct 14 The development of technology for older adults with dementia. University Health Network GIM Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2009 Jul 21 Developing intelligent systems for older adults. Human Factors Interest Group, University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2008 Jan 30 Intelligent Homes for Older Adults. KLARU Rounds, Baycrest Hospital. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2007 Dec 4 High Tech Universal Design. The Design Exchange / HCTP Workshop on Design for Aging. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**

Alex MIHAILIDIS

- 2007 May 5 Artificial intelligence and healthcare. Healthcare, Technology and Place Annual Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2007 May 2 An overview of smart home research at the University of Toronto. Bloorview Research Institute. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2007 Apr 26 The use of artificial intelligence to support older adults and wellness. York-Seneca Institute for Mathematics, Science, and Technology Education Conference. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2007 Apr 5 The use of artificial intelligence to support older adults. Toronto Rehabilitation Institute/George Brown Nursing. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2005 Nov 14 Development of an intelligent computerized tool to ensure safe stair use by older adults. Falls & Mobility Network Annual Meeting, Sunnybrook & Women's College Health Sciences Centre. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2005 Oct 17 **Keynote Speaker.** Technology for wellness: Supporting aging-in-place, independence and safety in the home. KLARU Annual Conference, Baycrest Centre for Geriatric Care. Toronto, Ontario, Canada. Presenter(s): Boger, J. (in my absence). Invited Keynote Presentation.
- 2005 Apr 14 The Potential of Intelligent Homes in Supporting Aging-in-Place. Annual HCTP Conference, University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2005 Jan 20 Automatically detecting falls in the home. Distinguished Speaker Seminar Series, Institute for Human Development, Life Course and Aging, University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2005 Jan 12 The role of technology in improving knowledge translation and caregiver intervention. HCTP Program, University of Toronto. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2004 Nov 22 Automated fall detection in the home: Preliminary design and results. Falls & Mobility Network Meeting, Sunnybrook & Women's College Health Sciences Centre. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2004 May 20 Intelligent home systems to support aging-in-place. Researchers' Network Presentation, Toronto Rehabilitation Institute. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2004 May 5 The potential use of technology and artificial intelligence in assisting older adults. KLARU Rounds, Baycrest Hospital. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.**
- 2002 May 10 Using computerized cognitive devices to increase the independence of people with dementia: Present and Future. Designing for Diversity in Dementia Care. Toronto, Ontario, Canada. Presenter(s): **Mihailidis, A.** Authors: Mihailidis, A. Fernie, G. Invited Presentation and Paper, 177 - 184.

Media Appearances

- 2005 "Intelligent Homes". Toronto Rehab Magazine. Winter 2005. Interview and print article.
- 2004 Aug 23 "Making Seniors Safer". The Bulletin, University of Toronto. (Janice Walls). Interview and print article.

Invited Workshop

- 2012 Nov 5 **Invited Speaker.** Assistive Technology for Seniors. Mills Community Centre. Ottawa, Ontario, Canada. Presenter(s): **Mihailidis, A.** Full-day workshop presented to 50 Occupational Therapists.

H. Teaching and Design

1. INNOVATIONS AND DEVELOPMENT IN TEACHING AND EDUCATION

- 2008 OCT1100 - Technology and OT, Graduate Education, Faculty of Medicine, Dept of Occupational Science & Occupational Therapy, University of Toronto
Developed new course in the OS&OT curriculum on the use of human factors and design in assistive technology.
This course is unique to the University of Toronto, and several other courses in other OT departments in North America are now developing similar courses modeled on OCT1100.

I. Research Supervision

1. PRIMARY OR CO-SUPERVISION

Undergraduate Education

- 2008 Sep - 2009 Apr **Primary Supervisor** Fiona Campbell, University of Toronto. *Exploring the use of physiological sensors for a robotic stroke device.*
- 2008 Sep - 2009 Apr **Primary Supervisor** Stephen Oung, University of Toronto. *The development of a hand-held contextual aware device for people with TBI.*
- 2008 Sep - 2009 Apr **Primary Supervisor** Helen Tsang, University of Toronto. *The development of a graphical user interface for use in intelligent home systems.*
- 2005 Sep - 2006 Apr **Primary Supervisor** Michael MacLennan, University of Toronto. *The design and development of an on-person fall detection system.* Awards: Selected finalist in RESNA 2006 Student Design Competition.
- 2004 Sep - 2005 Apr **Primary Supervisor.** B. Sc. Jenny Lo, Human Biology Programs, University of Toronto. *The efficacy of a personal disinfecting gel dispenser in increasing infection control in clinical settings.*
- 2003 Sep - 2004 Apr **Primary Supervisor.** B.A.Sc. Lydia Tse, School of Engineering Science, Simon Fraser University. *The development of a context-aware medication adherence device for older adults.*
- 2002 Sep - 2003 Apr **Primary Supervisor.** B.A.Sc. Eric Chow, School of Engineering Science, Simon Fraser University. *The development of an adaptive prompting module for use in an intelligent supportive environment for people with dementia.*
- 2002 Sep - 2003 Apr **Primary Supervisor.** B.A.Sc. Brent Carmichael, Department of Mechanical Engineering, University of British Columbia. *A skin-tone based hand tracking system to improve the in-home care of people with dementia.*

Graduate Education

- 2013 Sep - present **Primary Supervisor.** PhD. Camille Williams, University of Toronto. *The use of haptic guidance techniques for motor skill learning.*
- 2013 Sep - present **Primary Supervisor.** MASc. Rajjeet Phull, University of Toronto. *Designing new innovative middleware features for ambient assisted living (AAL) systems.*
- 2013 Sep - present **Primary Supervisor.** MSc. Yudai Ashida, University of Toronto. *Personal Assistive Robots to Support Aging-in-Place.*
- 2012 Sep - present **Primary Supervisor.** MHSc Clinical Biomedical Engineering. Harry Qui, University of Toronto. *Ambient based physiological monitoring devices.*

Alex MIHAILIDIS

- 2012 Sep - present **Primary Supervisor.** M.A.Sc. David Xue, University of Toronto. *An intelligent prompting system for children with autism.*
- 2012 Jan - present **Primary Supervisor.** PhD. Tuck-Voon How, University of Toronto, Supervisee Institution: U of T. *The use of pervasive computing in cognitive rehabilitation.*
- 2011 Sep - present **Primary Supervisor.** PhD. Tizneem Jiancaro, University of Toronto. *Assistive technology for cognition best practices guidelines.*
- 2011 Sep - present **Primary Supervisor.** PhD. Elham Dolatabadi, University of Toronto. *An intelligent balance assessment system.*
- 2011 Jan - present **Co-Supervisor.** PhD. Justin Chee, University of Toronto, Supervisee Position: PhD Student, Supervisee Institution: University of Toronto. *Augmenting assistive mobility devices with biophysical feedback.* Collaborator(s): Karl Zabjek.
- 2010 Sep - present **Primary Supervisor.** PhD. Ahmad Akl, University of Toronto. *Automated detection, classification, and prediction of patterns of living.*
- 2010 Sep - present **Primary Supervisor.** PhD. Amy Hwang, University of Toronto. *The design of a graphical user interface for the COACH system.*
- 2010 Sep - present **Primary Supervisor.** PhD. Isaac Chang, University of Toronto. *The design and validation of a smart floor tile to measure physiological data.*
- 2010 Sep - present **Primary Supervisor.** MHS Clinical Biomedical Engineering. Tahir Wasim, University of Toronto. *Biomechanical analysis of a rehab robot.*
- 2010 Jan - present **Co-Supervisor.** MSc. Tammy Craig, University of Toronto. *Mediated learning approaches using multi-touch displays. (In-Progress).* Collaborator(s): Helene Polatajko (Co-Supervisor).
- 2009 Sep - present **Primary Supervisor.** PhD. Stephen Czarnuch, University of Toronto. *The development and testing of the COACH@Home system.*
- 2007 Sep - present **Co-Supervisor.** PhD. Stephanie Green (nee Peacock), University of Toronto. *Changes in Brain Activation Post-mild Traumatic Brain Injury of Male and Female Minor-league Hockey Players.* Collaborator(s): Michelle Keightley (Co-Supervisor).
- 2007 Jan - present **Primary Supervisor.** PhD. Vicky Young, University of Toronto. *A speech-recognition interface for an emergency response system.*
- 2012 Jan - 2013 Dec **Primary Supervisor.** MHS Clinical Biomedical Engineering. Paul Oramanisu, University of Toronto, Supervisee Institution: University of Toronto. *Object classification for an intelligent powered wheelchair.*
- 2011 Sep - 2013 Dec **Primary Supervisor.** MHS Clinical Biomedical Engineering. Manas Bhatnagar, University of Toronto. *Ambient displays in healthcare.*
- 2011 Sep - 2013 Sep **Co-Supervisor.** MHS Clinical Biomedical Engineering. Regina Leung, University of Toronto. *Design of a Visual Haptic Platform for Pedicle Screw Insertions in Scoliosis Surgery.* Collaborator(s): Karl Zabjek.
- 2011 Sep - 2012 Dec **Primary Supervisor** Gemma Parra, University of Toronto. Completed 2012.
- 2010 Sep - 2011 Jun **Primary Supervisor.** MSc Occupational Therapy. Valerie Leuty, University of Toronto. *Testing the usability and efficacy of a computer-based art therapy device for older adults with dementia.*
- 2009 Sep - 2013 Jun **Primary Supervisor.** PhD. Jasper Snoek, University of Toronto. *Machine learning and emergency response systems.*
- 2009 Sep - 2011 Sep **Primary Supervisor.** MHS Clinical Biomedical Engineering. Elaine Lu, University of Toronto. *The design of a robotic system for stroke rehabilitation using a participatory design approach.* Completed 2011.
- 2009 Sep - 2011 Sep **Primary Supervisor.** MSc. Yulia Eskin, University of Toronto. *The design of an automated system for monitoring nutritional intake.* Completed 2011.
- 2009 Sep - 2010 Jun **Primary Supervisor.** MSc Occupational Therapy. Naomi Turcotte, OCT1220: Graduate Research Project, University of Toronto. *Assistive technology used to support community-dwelling older adults with dementia and their family caregivers.* Collaborator(s): Quraishi Munirah. Completed 2010.

Alex MIHAILIDIS

- 2009 Sep - 2010 Jun **Primary Supervisor.** MSc Occupational Therapy. Quraishi Munirah, OCT1220: Graduate Research Project, University of Toronto. *Assistive technology used to support community-dwelling older adults with dementia and their family caregivers.* Collaborator(s): Naomi Turcotte. Completed 2010.
- 2008 Sep - 2010 Sep **Primary Supervisor.** M.A.Sc. Tuck-Voon How, University of Toronto. *The development of an anti-collision powered wheelchair.*
- 2008 Sep - 2009 Jun **Co-Supervisor.** MSc Occupational Therapy. Tiffany Hastoo, OCT1220: Graduate Research Project, University of Toronto. *The role of OTs in Corporations.* Collaborator(s): Barry Trentham (Co-Supervisor).
- 2008 Sep - 2009 Jun **Co-Supervisor.** MSc Occupational Therapy. Megan Badun, OCT1220: Graduate Research Project, University of Toronto. *The views of medical students on the role of OT.* Collaborator(s): Barry Trentham (Co-Supervisor).
- 2008 Sep - 2009 Jun **Primary Supervisor.** MSc Occupational Therapy. Jackie Swartz, OCT1220: Graduate Research Project, University of Toronto. *The evaluation of an anti-collision powered wheelchair with older adults with dementia.*
- 2007 Sep - 2012 Dec **Co-Supervisor.** PhD. Nick Reed, University of Toronto. *The relationship between sustained head impacts, mTBI, and cognitive function in minor hockey players.* Collaborator(s): Michelle Keightley (Co-Supervisor). Completed 2012.
- 2007 Sep - 2010 Feb **Primary Supervisor.** M.A.Sc. Victor Monroy, University of Toronto. *The development of an automated prompting system for children with autism.*
- 2007 Sep - 2008 Jun **Primary Supervisor.** MSc Occupational Therapy. Dina Kalenes, OCT1220: Graduate Research Project, University of Toronto. *Determining prompting strategies used with children with autism.* Collaborator(s): Christelle Robaille.
- 2007 Sep - 2008 Jun **Primary Supervisor.** MSc Occupational Therapy. Christelle Robaille, OCT1220: Graduate Research Project, University of Toronto. *Determining prompting strategies used with children with autism.* Collaborator(s): Dina Kalenes.
- 2006 Sep - 2008 Sep **Primary Supervisor.** M.A.Sc. Patricia Kan, University of Toronto. *Development of a POMDP for Intelligent Haptic Stroke Rehabilitation.* Completed 2008.
- 2006 Sep - 2007 Jun **Primary Supervisor.** MSc Occupational Therapy. Jennifer Morin, OCT1220: Graduate Research Project, University of Toronto. *A computer-based art therapy program. (Completed July, 2007).*
- 2006 Sep - 2007 Jun **Primary Supervisor.** MSc Occupational Therapy. Stephanie Peacock, OCT1220: Graduate Research Project, University of Toronto. *Assessment of a new winter coat for older adults. (Completed July, 2007).*
- 2006 Sep - 2007 Jun **Primary Supervisor.** MSc Occupational Therapy. Jessica Thompson, OCT1220: Graduate Research Project, University of Toronto. *Technology needs among children with autism. (Completed July, 2007).*
- 2005 Sep - 2013 Jun **Co-Supervisor.** PhD. Rozanne Wilson, University of Toronto. *Determining effective cueing strategies for people with Alzheimer's disease.* Collaborator(s): Elizabeth Rochon (Co-Supervisor). Completed 2013.
- 2005 Sep - 2010 Mar **Co-Supervisor.** PhD. Stefanie Blain, University of Toronto. *A communication device for disabled children.* Collaborator(s): Tom Chau (Co-Supervisor). Completed 2010.
- 2005 Sep - 2007 Sep **Co-Supervisor.** MHSc. Tony Tam, University of Toronto. *The development of an intelligent emergency response system.* Collaborator(s): Alf Dolan (Co-Supervisor). Completed 2005.
- 2005 Sep - 2007 Sep **Primary Supervisor.** M.A.Sc. Paul Lam, University of Toronto. *Intelligent Haptic Stroke Rehabilitation.* Completed 2007.
- 2005 Sep - 2007 Feb **Primary Supervisor.** MSc. Jasper Snoek, University of Toronto. *Development of an automated tool for detecting unsafe events on stairs.* Completed 2007.
- 2005 Sep - 2006 Jun **Primary Supervisor.** MSc Occupational Therapy. Marcia Hopcraft, OCT1220: Graduate Research Project, University of Toronto. *Exploring physical and psychosocial factors affecting stair use among seniors. (Completed July, 2006).* Collaborator(s): Maria Rosary Mendola.

Alex MIHAILIDIS

- 2005 Sep - 2006 Jun **Primary Supervisor.** MSc Occupational Therapy. Maria Rosary Mendola, OCT1220: Graduate Research Project, University of Toronto. *Exploring physical and psychosocial factors affecting stair use among seniors. (Completed July, 2006).* Collaborator(s): Marcia Hopcraft.
- 2005 Sep - 2006 Jun **Primary Supervisor.** MSc Occupational Therapy. Amanda Garnett, OCT1220: Graduate Research Project, University of Toronto. *Determining the current and future needs of Lifeline System users. (Completed July, 2006).*
- 2005 Sep - 2006 Jun **Primary Supervisor.** MSc Occupational Therapy. Monika Champ, OCT1220: Graduate Research Project, University of Toronto. *Occupational Therapists and Technology. (Completed July, 2006).*
- 2004 Sep - 2005 Jun **Co-Supervisor.** MSc Occupational Therapy. Abigail Dry, OCT1220: Graduate Research Project, University of Toronto. *Technology and women with traumatic brain injury. (Completed July, 2005).* Collaborator(s): Angela Colantonio (Co-Supervisor).
- 2004 Sep - 2005 Jun **Primary Supervisor.** MSc Occupational Therapy. Laura Kronos, OCT1220: Graduate Research Project, University of Toronto. *Determining the needs of nurses from electronic devices and aids. (Completed July, 2005).*
- 2004 Sep - 2005 Jun **Primary Supervisor.** MSc Occupational Therapy. Catherine Longley, OCT1220: Graduate Research Project, University of Toronto. *The acceptance of home monitoring technology among community dwelling older adults and baby boomers. (Completed July, 2005).* Collaborator(s): Amy Cockburn.
- 2004 Sep - 2005 Jun **Primary Supervisor.** MSc Occupational Therapy. Amy Cockburn, OCT1220: Graduate Research Project, University of Toronto. *The acceptance of home monitoring technology among community dwelling older adults and baby boomers. (Completed July, 2005).* Collaborator(s): Catherine Longley.
- 2003 Sep - 2007 Dec **Co-Supervisor.** PhD. Jorge Silva, University of Toronto. *A novel approach to asynchronous control.* Collaborator(s): Tom Chau (Co-Supervisor).
- 2003 Sep - 2005 Sep **Co-Supervisor.** MHSc. Melinda McLean, University of Toronto. *The development of a speech recognition module for use in an emergency response system.* Collaborator(s): Alf Dolan (Co-Supervisor). Completed 2005.
- 2002 Sep - 2004 Jul **Co-Supervisor.** MSc. Mandy Shintani, Gerontology Program, Simon Fraser University. *The evaluation of the Lifeline telephone reminding system.* Collaborator(s): Gloria Gutman (Co-Supervisor). Completed 2004.

Postdoctoral Research Fellow (PhD)

- 2014 Jan - present **Primary Supervisor** Peng Dai. *Human robot interaction.*
- 2014 Jan - present **Primary Supervisor** Ahmed Bilal Ashraf, University of Toronto.
- 2012 Aug - present **Primary Supervisor** Pooja Viswanathan. *Development and evaluation of an intelligent powered wheelchair.*
- 2011 Sep - present **Primary Supervisor** Amaya Arcelus, University of Toronto. *Intelligent physiological monitoring.*
- 2010 Dec - present **Primary Supervisor** Rosalie Wang, Toronto Rehabilitation Institute. *Robotics and artificial intelligence in rehabilitation.*
- 2014 Sep **Primary Supervisor** Ali Asadian.
- 2013 Jan - 2013 Dec **Primary Supervisor** Nick Reed. *Evaluation of a new tool to measure post-concussive symptoms in athletes.*
- 2012 Jun - 2013 Jun **Primary Supervisor** Momotaz Begum, Toronto Rehabilitation Institute. *Social robotics and interactions.*
- 2011 Sep - 2012 Sep **Primary Supervisor** Frank Rudzicz, University of Toronto, Supervisee Position: Scientist, Supervisee Institution: Toronto Rehabilitation Institute. *Intelligent speech recognition for smart home systems.* Completed 2012.
- 2010 Oct - 2013 Jul **Primary Supervisor** Rajibul Huq, University of Toronto. *The development of a robotic-haptic system for stroke rehabilitation.*

Alex MIHAILIDIS

- 2009 Sep - 2011 Sep **Primary Supervisor** Sonya Allin, University of Toronto. *The development of automated balance and mobility assessment tools. (Currently on maternity leave).* Completed 2011.
- 2008 Mar - 2012 Sep **Primary Supervisor** Babak Taati, University of Toronto, Supervisee Position: Scientist, Supervisee Institution: Toronto Rehabilitation Institute. *Development of computer vision models for smart home systems.*
- 2007 **Primary Supervisor** Bruno Bouchard, University of Toronto, Supervisee Institution: Received a faculty appointment at University of Quebec (Chicoutimi), Canada. *The development of a hybrid plan recognition system for helping older adults with dementia.*
- 2006 - 2007 **Primary Supervisor** Zhonghai Li, Toronto Rehabilitation Institute, Supervisee Institution: Received a scientist appointment at the National Transportation and Safety Institute, Washington, DC, USA. *The effects of familiarity and design on product use by older adults with dementia.*
- 2004 - 2006 **Primary Supervisor** Jesse Hoey, University of Toronto, Supervisee Institution: Received a faculty appointment at University of Dundee, Scotland, UK, now at University of Waterloo. *Computer vision and decision theoretic models as applied to intelligent environments.*

Other Role

- 2013 Oct - present **Primary Supervisor** Bernice D'Souza, Research Developer/Occupational Therapist, Toronto Rehabilitation Institute.
- 2012 Sep - present **Primary Supervisor** Bing Ye, Research Assistant, University of Toronto.
- 2011 Jul - present **Primary Supervisor** Fabrizio Farronato, Research Assistant, University of Toronto.
- 2011 Mar - present **Primary Supervisor** Yani Ioannou, Software Developer, Toronto Rehab Institute.
- 2007 - present **Primary Supervisor** Tammy Craig, Research Assistant, University of Toronto. *The clinical efficacy of the COACH system.*
- 2004 - present **Primary Supervisor** Jennifer Boger, Research Manager, University of Toronto.
- 2011 Nov - 2013 Jan **Primary Supervisor** David Xue, Research Intern, University of Toronto. Completed 2013.
- 2011 Oct - 2013 Mar **Primary Supervisor** Yulia Eskin, Software Developer, University of Toronto. Completed 2013.
- 2011 Sep - 2012 Dec **Primary Supervisor** Gemma Parra, Intern, Toronto Rehabilitation Institute. Completed 2012.
- 2011 Feb - 2013 Jan **Primary Supervisor** Ryan Keyfitz, Software Developer, University of Toronto. Completed 2013.
- 2011 **Primary Supervisor** Amanda Calvin, Research Assistant, University of Toronto.
- 2010 Apr - 2010 Sep **Primary Supervisor** Anna Flagg, Summer Intern, University of Toronto. *The development of a sensing module for the task of toothbrushing.*
- 2010 Apr - 2010 Sep **Primary Supervisor** Diane Kostka, IBBME Clinical Engineering Internship, University of Toronto. *Exploring the use of smart materials and sensors in a smart home.*
- 2010 - 2012 **Primary Supervisor** Justin Brimbhaw, Research Assistant, University of Toronto.
- 2010 - 2011 **Primary Supervisor** Michael Belshaw, Software Developer, University of Toronto.
- 2009 - 2011 **Primary Supervisor** Babak Taati, Research Engineer and Software Developer, University of Toronto.
- 2007 - 2008 **Primary Supervisor** Lindsay Scott, Research Assistant, University of Toronto. *The development of an intelligent prompting system for children with autism.*
- 2007 - 2008 **Primary Supervisor** David Giesbrecht, Research Engineer and Software Developer, University of Toronto.
- 2006 May - 2006 Sep **Primary Supervisor** Patricia Kan, Summer Student, University of Toronto. *Intelligent Haptic Stroke Rehabilitation.*
- 2006 May - 2006 Sep **Primary Supervisor** Michael Lim, Summer Student, University of Toronto. *Testing of a computerized system to determine unsafe stair use.*
- 2006 May - 2006 Sep **Primary Supervisor** Pooja Viswanathan, Summer Student, University of Toronto. *Development of an intelligent powered wheelchair.*

Alex MIHAILIDIS

- 2006 - 2010 **Primary Supervisor** Kate Fenton, Research Assistant. *The efficacy of an automated prompting system to assist older adults with dementia during handwashing.*
- 2006 - 2007 **Primary Supervisor** Axel von Bertoldi, Research Engineer and Software Developer, University of Toronto.
- 2005 May - 2005 Aug **Primary Supervisor** Jasper Snoek, Summer Student, Sunnybrook & Women's College HSC. *Development and validation of an automated tool for detecting and preventing unsafe stair use by older adults.*
- 2005 May - 2005 Aug **Primary Supervisor** Dan Gunn, Summer Student, Sunnybrook & Women's College HSC. *The development of an intelligent anti-collision system for a powered wheelchair.*
- 2005 - 2006 **Primary Supervisor** John-Paul Lobos, University of Toronto (Co-Op Student, University of Waterloo). *An intelligent emergency response system.*
- 2005 **Primary Supervisor** Chris Riddle, Research Assistant, University of Toronto. *Clinical testing of an automated prompting system for handwashing.*
- 2004 - 2005 **Primary Supervisor** Marcelle Canido, Research Assistant, University of Toronto. *Clinical testing of an automated prompting system for handwashing.*
- 2004 **Primary Supervisor** Michael Lim, Research Assistant, University of Toronto. *The efficacy of using visual prompting to assist older adults with dementia during activities of daily living.*
- 2004 **Primary Supervisor** Tracy Lee, Research Assistant, University of Toronto. *An intelligent emergency response system.*
- 2003 - 2005 **Primary Supervisor** Katrinka Lee Labelle, Research Assistant, University of Toronto. *The efficacy of using visual prompting to assist older adults with dementia during activities of daily living.*
- 2003 **Primary Supervisor** Elizabeth Kelson, Research Assistant, Gerontology Research Centre, Simon Fraser University. *Determining the acceptability of home monitoring technology among community-dwelling older adults.*
- 2003 **Primary Supervisor** Eric Chow, Research Assistant, Gerontology Research Centre, Simon Fraser University. *The development of an adaptive prompting module for use in an intelligent supportive environment for people with dementia.*
- 2002 - 2004 **Primary Supervisor** Teena Love, Research Assistant, Gerontology Research Centre, Simon Fraser University. *The effects of a knee brace on the mobility of older adults with osteoarthritis during common walking tasks: Clinical testing of the OrthoActive knee brace.*
- 2002 - 2003 **Primary Supervisor** Brent Carmichael, Co-Op Student, Gerontology Research Centre, Simon Fraser University. *The development of a new vision tracking system for use in computerized cognitive devices.*
- 2002 **Co-Supervisor** Michael Lim, Sunnybrook & Women's College Health Sciences Centre. *Determining effective cueing strategies used by caregivers with people with Alzheimer's disease.* Collaborator(s): Geoff Fernie (Co-Supervisor).

2. OTHER SUPERVISION

Graduate Education

SECONDARY SUPERVISOR

- 2009 Sep - 2010 Jun **MSc Occupational Therapy.** Kelly Spence, OCT1220: Graduate Research Project, University of Toronto. *Optimal AAC device layout for clients with severe aphasia.* Collaborator(s): E. Rochon, L. MacLean. Completed 2010.

THESIS COMMITTEE MEMBER

- 2010 Sep - present **PhD.** Yi Chu, (Proposal Defense), Department of Computer Science, University of Rochester, Rochester, NY.
- 2010 Sep - present **PhD.** Camille Williams, University of Toronto. *Bandwidth guidance and motor learning.*

- Collaborator(s): Heather Carnahan (supervisor).
- 2010 Sep - present **MHSc Clinical Biomedical Engineering.** Ahmed Faress, University of Toronto. *The Detection of Cognitive Activity within a System-Paced Dual-State Selection Paradigm Using a Combination of fNIRS and fTCD Measurements.* Collaborator(s): Tom Chau.
- 2009 Jan - present **PhD.** Emily King, University of Toronto. *Home healthcare technologies.* Collaborator(s): Geoff Fernie (Supervisor).
- 2011 Sep - 2013 Sep **MHSc Clinical Biomedical Engineering.** Lian Ni, University of Toronto. *Development and testing of sample therapeutic programs on the MS Kinect for children with CP.* Collaborator(s): Elaine Biddis. Completed 2013.
- 2010 **PhD.** Rosalie Wang, University of Toronto. *Wheelchair anti-collision systems.* Collaborator(s): Geoff Fernie (Supervisor).
- 2009 Sep - 2011 Sep **MHSc Clinical Biomedical Engineering.** Leslie Mumford, University of Toronto. *Alternative communication access pathways.* Collaborator(s): Tom Chau.
- 2008 - 2010 **MHSc.** Neil Rittenhouse, University of Toronto. *An automated tracking system for a surgical skills training system.* Collaborator(s): Teodor Grantcharov (Supervisor).
- 2008 - 2010 **MHSc.** Alex Furse, University of Toronto. *Design and validation of a above knee prosthetic joint.* Collaborator(s): William Cleghorn & Jan Andreysek (Supervisors).
- 2008 - 2010 **M.A.Sc.** Camille Williams, University of Toronto. *Development and validation of an online tool to teach personal hygiene.* Collaborator(s): Heather Carnahan (Supervisor).
- 2006 - 2008 **M.A.Sc.** Kelly Tai, University of Toronto. *Near-Infrared spectroscopy signal classification: Towards a brain-computer interface.* Collaborator(s): Tom Chau (Supervisor).
- 2005 Sep - 2012 Feb **PhD.** Michael Massimi, Supervisee Institution: University of Toronto. *Thanatosensitively Designed Technologies for Bereavement Support.* Collaborator(s): R. Baecker, K. Truong. Completed 2012.
- 2004 - 2009 **PhD.** Jorge Torres, University of Toronto. *Topographical disorientation rehabilitation.* Collaborator(s): Tom Chau (Supervisor).
- 2004 - 2009 **PhD.** James Tung, University of Toronto. *Environmental Context of Dynamic Stability in Rollator Users.* Collaborator(s): William McIlroy (Supervisor).
- 2004 - 2006 **M.A.Sc.** Kenneth Cheng, University of Toronto. *Smart Walker Project (Completed September, 2006).* Collaborator(s): Brian Maki (Supervisor).
- 2004 - 2006 **M.A.Sc.** Alison Lever, University of Toronto. *The efficacy of a double handrail configuration for stair negotiation of "hobbled" subjects. (Completed September, 2006).* Collaborator(s): Geoff Fernie (Supervisor).
- 2004 **M.A.Sc.** Jennifer Boger, University of Toronto. *The application of an intelligent controller for a prompting device. (Completed September, 2004).* Collaborator(s): Geoff Fernie (Supervisor).
- 2003 - 2005 **M.A.Sc.** Jesus Estanol, University of Toronto. *Robust recognition of communicative intent in unconstrained environments. (Completed July, 2005).* Collaborator(s): Tom Chau (Supervisor).
- 2003 - 2005 **M.A.Sc.** Hai Huang, University of Toronto. *The development and evaluation of the laser line object detection system for powered wheelchairs. (Completed September, 2005).* Collaborator(s): Geoff Fernie (Supervisor).
- PhD.** Jennifer Hsu, University of Toronto. *Evaluation of foot wear in winter conditions. (In-Progress).* Collaborator(s): Geoff Fernie (Supervisor).
- M.A.Sc.** Delbert Hung, University of Toronto. *Ecological Factors in Emotion Recognition using Physiological Signals. (In-Progress).* Collaborator(s): Elaine Biddis (Supervisor).
- MHSc.** Celeste Merey, University of Toronto. *Quantitative classification of pediatric swallowing through accelerometry. (In-Progress).* Collaborator(s): Tom Chau (Supervisor).
- PhD.** Kaveh Momen, University of Toronto. *Tracking the actions of nursing staff as related to hand hygiene. (In-Progress).* Collaborator(s): Geoff Fernie (Supervisor).
- PhD.** Michael Massimi, University of Toronto. *Ubiquitous computing and the home. (In-Progress).* Collaborator(s): Ron Baecker (Supervisor).

PhD. Pooja Viswanathan, Computer Science, University of British Columbia. *NOAH (Navigation and Obstacle Avoidance Help) for wheelchair users with cognitive impairment. (In-Progress).* Collaborator(s): Alan Mackworth (Supervisor).

THESIS EXAMINER

- 2014 Mar **MSc.** Stephanie Blackman, Gerontology, Simon Fraser University. *Investigating the feasibility of smartphone applications as a support for older adults with mild impairments in cognition.*
- 2013 Jan **PhD.** Hisham Alshaer, University of Toronto.
- 2012 Dec **PhD.** Arni Ariani, Biomedical Engineering, University of New South Wales. *Simulation of a wireless sensor network for unobtrusively detecting falls in the home.*
- 2012 **PhD.** Heather Neyedli, University of Toronto. *Motor Performance in the Context of Externally Imposed Payoffs.*
- 2009 **PhD.** Huan Yu, University of Toronto.
- 2008 **M.A.Sc.** Fady Hanna, University of Toronto.
- 2008 **M.A.Sc.** Lev Vaisman, University of Toronto.
- 2008 **M.A.Sc.** Linda Ko, University of Toronto.
- 2007 **M.A.Sc.** Vivian Wai Hang Sin, University of Toronto.
- 2007 **M.A.Sc.** Jennifer Kholenberg, University of Toronto.
- 2006 **M.A.Sc.** Brent Carmichael, University of Toronto.
- 2005 **PhD.** Joan Truxler, University of Toronto.
- 2005 **MHSc.** Susan Gorski, University of Toronto.

J. Creative Professional Activities

1. PROFESSIONAL INNOVATION AND CREATIVE EXCELLENCE

- 2012 Oct - present Age-CAP App for iPhone and Android platforms.
Age-CAP (Communities Assessment App) is a smartphone application which aims to create a crowd-sourced database of age-friendly locations. It consists of survey styled forms which enable users to quickly rate a location. Users are also able to browse this database to assess the age-friendliness of locations in their neighbourhood, providing them with information which was otherwise unavailable.