

Christina Eubanks-Turner

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EDUCATION	University of Nebraska-Lincoln	
	Ph.D., Mathematics, Advisor: Sylvia Wiegand	May 2008
	M.S., Mathematics	August 2004
	Xavier University of Louisiana	
	B.S., Mathematics, <i>cum laude</i>	May 2002
ACADEMIC EMPLOYMENT	Department of Mathematics, Loyola Marymount University, Los Angeles, CA.	
	Assistant Professor of Mathematics	Aug. 2013 - present
	Director, Secondary Teacher Preparation Program in Mathematics	Aug. 2015-present
	Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA.	
	Assistant Professor of Mathematics	Aug. 2008 - May 2013
TEACHING EXPERIENCE	Loyola Marymount University	
	<i>Instructor</i>	Aug. 2013 - present
	MATH 106: Math for Elementary Teachers I (Fall 2013)	
	MATH 107: Math for Elementary Teachers II (Spring 2014)	
	MATH 112: Mathematical Analysis for Business II (Fall 2014, Spring 2015)	
	MATH 331: Elements of Group Theory (Spring 2015)	
	MATH 548: Methods of Proofs for Teachers (Summer 2015)	
	MATH 102/103: Quantitive Skills for the Modern World (Summer 2015)	
	MATH 122: Calculus for the Life Sciences I (Fall 2015)	
	MATH 248: Introduction to Methods of Proof (Fall 2015)	
	University of Louisiana at Lafayette	
	<i>Instructor</i>	Aug. 2008 - May 2013
	Intro to Coding Theory, summer course	
	Graph Polynomials, independent study course	
	Intro to Graph Theory, independent study course	
	Applied Calculus, traditional; online course designer	
	Calculus I	
	Calculus II	
	Number Theory and Abstract Algebra for High School Teachers	
	Linear Algebra, graduate credit course	
	Modern Algebra I, graduate credit course; independent study	
	Modern Algebra II, graduate credit course	
	Number Theory, graduate credit course	
	Number Theory for Middle School Teachers, graduate course	
	Algebra and Functions for Middle School Teachers, graduate course	
	Louisiana State University	
	<i>Instructor, Louisiana Math and Science Teacher Institute</i>	Jun. 2010 - Jul. 2010
	Pre-Thesis Seminar	
	Leadership Seminar (Guest Lecturer)	

University of Nebraska-Lincoln

Instructor Aug. 2002 - Aug. 2008
 Functions of Algebra and Geometry for High School Teachers
 Intermediate Algebra
 College Algebra
 Mathematics Matters (course for pre-service elementary teachers)

Teaching Fellow, Project Fulcrum Aug. 2004 - May 2005
 Middle school math and science curriculum development and implementation

Recitation Instructor Jul. 2002 - Aug. 2007
 Abstract Algebra
 Calculus I
 Calculus II

ADVISING AND
MENTORING**Loyola Marymount University**

Jack Polerecky, Noyce Internship, Jun. 2015-present
 Jonathan Isozaki, SURP, May 2015-present
 Kyle Casto, SURP, May 2015-present
 Alyssa Tomlinson, RAINS Research Assistant, Jan. 2014-present
 Claire Summers, RAINS Research Assistant, Sep. 2013-Jan. 2014
 First To Go Mentor Sep. 2014-present

University of Louisiana at Lafayette

L. Bruno, P. Robin, R. Wilburn, T. Thomas, undergraduate research assistant, Jun. 2013-Aug 2013
 E. Reynoso, B. Thibodeaux, A. Urquiza, A. Wheatley, D. Young, undergraduate research assistant, Jun. 2012-Aug 2012
 I. Fene, M. Gonzalez, J. Johnson, M. Lennon, K. Pr'Out, undergraduate research assistant, Jun. 2011-Aug 2011
 Matthew Lennon, graduate research assistant, Summer 2011, 2012, 2013
 Louis Stokes Louisiana Alliance for Minority Participation Oct. 2009-May 2013

PUBLICATIONS

- 9 B. Baker Swart, K. Beck, S. Crook, **C. Eubanks-Turner**, H. Grundman, M. Mei, L. Zack, *Augmented Generalized Happy Functions* (accepted, Rocky Mountain Journal of Mathematics, arxiv.org/abs/1410.0297).
- 8 A. Kreide, **C. Eubanks-Turner**, A. Tomlinson, *Preservice teachers' development of questioning skills through Common Core aligned exemplar videotaped math lessons, Proceedings of the Hawaii University International Conferences*, (2015), 13 pages <http://www.huichawaii.org/steam2015p.html>
- 7 **C. Eubanks-Turner**, M. Lennon, E. Reynoso, B. Thibodeaux, A. Urquiza, A. Wheatley, D. Young, *Using the Division Algorithm to Decode Reed-Solomon Codes, Journal of Shanghai Normal University (Natural Sciences)* (2015), 44:3, 262-269.¹
- 6 **C. Eubanks-Turner**, N. Hajj, *Mardi Gras Math, Mathematics Teaching in the Middle School* (2015), 20:8, 492-498.

¹Work originating from an undergraduate research project.

- 5 **C. Eubanks-Turner**, A. Li, *Graphical Properties of the Bipartite Graph of $\text{Spec}(\mathbb{Z}[x]) \setminus \{0\}$* , *Journal of Algebra Combinatorics, Discrete Structures and Applications* (2015), 2:1, 65-73.
- 4 E. Celikbas, **C. Eubanks-Turner**, S. Wiegand, Prime Ideals in Power Series Rings and Polynomial Rings over Noetherian Domains, *Recent Advances in Commutative Rings, Integer-Valued Polynomials, and Polynomial Functions*, Springer (2014), 55-82.
- 3 **C. Eubanks-Turner**, The W.I.P.E. Rubric: Assessing Student Presentations of Mathematical Proofs, *Proceedings of the Lilly Conference on College and University Teaching and Learning*, (2014), 10-14.
- 2 **C. Eubanks-Turner**, M. Luckas, and S. Saydam, Prime Ideals in Birational Extensions of Two-Dimensional Power Series Rings, *Communications in Algebra* (2013), 41: 2, 703-735.
- 1 E. Celikbas, **C. Eubanks-Turner**, The Projective Line Over the Integers, *Progress in Commutative Algebra 2*, De Gruyter (2012), 221-240.

GRANTS
AWARDED

Seaver College Graduate Assistantship Loyola Marymount University	Jun. 2015- Jun. 2016 \$12,337
Academic Technology Summer Grant Loyola Marymount University	May 2015 \$1,000
New Faculty Grant Loyola Marymount University	Dec. 2013 \$6,000
RAINS Research Assistantship Loyola Marymount University	2013, 2014, 2015 \$3,200
Louisiana Mathematics Masters in the Middle (LaM³) (Co-PI) National Science Foundation, DUE-1240054	Jul. 2012 \$1,868,895
Supervised Undergraduate Research Experiences Louisiana Board of Regents (support for two undergraduate researchers)	May 2012 \$8,000
MSRI Math Circles Seed Grant Mathematical Sciences Research Institute	Oct. 2011 \$2,000
The Louisiana Noyce Teaching Fellows/Master Teaching Fellows Planning Project National Science Foundation, DUE-1136417	Aug. 2011 \$127,449
AWM Mentoring Travel Grant Association for Women in Mathematics	Aug. 2011 \$3,300
A TEAM (Tactile Experiences with Algebraic Models) Approach to Proficiency in the Middle Grades) (Co-PI) Louisiana Board of Regents	April 2011 \$259,629
Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Minorities in Mathematical Sciences: A Pilot Project (Co-PI) National Science Foundation, DMS-1043223	Feb. 2011 \$548,880
Acadiana Math Teachers' Circle 2011 Summer Retreat Community Foundation of Acadiana - Pugh Family Fund	Jan. 2011 \$12,000

Electronic Course Design Grant University of Louisiana at Lafayette	Oct. 2010 \$2,500
Travel Grant for Emerging Faculty Louisiana Board of Regents	Apr. 2010 \$1,200
Travel Grant for Emerging Faculty Louisiana Board of Regents	Jan. 2009 \$1,200
Summer Research Grant University of Louisiana at Lafayette	Jun. 2009 \$4,800

PEER-
REVIEWED OR
INVITED
PRESENTATIONS

Pre-Service Teachers' Development of Questioning Skills through Common Core Aligned Videotaped Math Lessons June 2015
Hawaii University International S.T.E.A.M. Education Conference, Honolulu, HI.

Using Webb's Depth of Knowledge to Reach 21st Century Skills Seen in the Common Core Mathematical Practices and Science and Engineering Practices in the Next Generation Science Standards June 2015
Hawaii University International S.T.E.A.M. Education Conference, Honolulu, HI (50-minute workshop presentation).

Setting the STAGE (Smooth Transition for Advancement to Graduate Education) for Underrepresented Students in Mathematical Sciences: Broadening Participation through Mentoring May 2015
Understanding Interventions that Broaden Participation in STEM Careers, San Diego, CA (poster presentation).

Lessons Learned from the Pilot Project 'Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Students in Mathematical Sciences' Jan. 2015
MAA Session on Perspectives and Experiences on Mentoring Undergraduate Students in Research, Joint Mathematics Meetings, San Antonio, TX.

Prospective teachers' development of questioning skills inspired by authentic mathematical classroom dialogue from videotaped lessons Oct. 2014
Scientific Symposium on Current Research Trends in Mathematics Education: Issues That Matter, SACNAS, Los Angeles, CA.

Coloring Outside the Lines: The colorful impact of math on the world Apr. 2014
Preparing Undergraduates through Mentoring towards PhDs (PUMP) Research Symposium, California State Polytechnic University, Pomona, Pomona, CA.

The W.I.P.E. Rubric: Assessing Student Presentations of Mathematical Proofs Feb. 2014
Lilly Conference on College and University Teaching and Learning, Hyatt Regency Newport Beach, Newport Beach, CA.

Taking the STAGE: Preparing for Graduate School or STEM Careers Jun. 2013
University of Louisiana at Lafayette, Lafayette, LA.

Commutative Algebra and the Algebraic Reasoning of Teachers Feb. 2013
University of Texas at Dallas, Dallas, TX.

The Mathematical Practices of the Mad Veterinarian Feb. 2013
Loyola Marymount University, Los Angeles, CA.

Efforts to Improve the Algebraic Content Knowledge of Middle Grade Teachers Jan. 2013

Mathematics Seminar, Kennesaw State University, Kennesaw, GA.

STAGE: A Pilot Project in Mentoring Underrepresented Undergraduate Students Jan. 2013

MAA Session on Effective Strategies and Programs for Mentoring Women and Minorities in Mathematics, Joint Mathematics Meetings, San Diego, CA.

Graphical Properties of the Bipartite Subgraph of $\text{Spec}(\mathbb{Z}[x])$ Oct. 2012

Special Session on Algebraic Structures over Commutative Rings, American Mathematical Society Fall Sectional Meeting, Tulane University, New Orleans, LA.

Prime Ideals in Quotients of Low-Dimensional Mixed Polynomial/Power Series Rings Mar. 2012

The Consortium for Order in Algebra and Logic, University of Florida, Gainesville, FL.

Making Myself Useful... Oct. 2011

Mathematics Education Seminar, University of Nebraska-Lincoln, Lincoln, NE.

Error Detection and Correction Mar. 2011

Center for Undergraduate Research in Mathematics Spring Research Conference, Brigham Young University, Provo, UT.

Prime Spectra of Birational Extension Rings Jan. 2011

Association for Women in Mathematics Workshop, Joint Mathematics Meetings, New Orleans, LA.

Mad Veterinarian Jun. 2010

Acadiana Math Teachers' Circle Summer Retreat, Lafayette, LA.

Prime Ideals in Birational Extensions of Power Series Rings Apr. 2010

Special Session in Commutative Ring Theory, American Mathematical Society Spring Sectional Meeting, Macalester College, St. Paul, MN.

Prime Ideals in Birational Extensions of Power Series Rings Mar. 2010 - Apr. 2010

Algebra Seminar, University of Louisiana at Lafayette, Lafayette, LA (presentation consisted of four one hour expository talks).

Prime Ideals in Mixed Polynomial/Power Series Rings Jan. 2009

The Granville-Brown-Hayes Session of Presentations by Recent Doctoral Recipients, The Joint Mathematics Meetings, Washington, D.C.

Spectacular Skeletons: Prime ideals in rings of power series over the integers Jan. 2008

Association for Women in Mathematics Workshop, Joint Mathematics Meetings, San Diego, CA (Poster Presentation).

MANUSCRIPTS
UNDER REVIEW
& IN PROGRESS

C. Eubanks-Turner, A. Kreide, *Preparing Preservice Teachers to Pose Purposeful Questions Through Common Core Aligned Videotaped Math Lessons* (submitted).

C. Eubanks-Turner, P. Beaulieu, N. Pal, A. Vatsala, *Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Groups in Mathematical Sciences Pilot Project: The Benefits and Challenges of Mentoring* (submitted).

A. Bargagliotti, **C. Eubanks-Turner**, *Attending to Precision in Statistics* (submitted).

B. Baker Swart, K. Beck, S. Crook, **C. Eubanks-Turner**, H. Grundman, M. Mei, L. Zack, *Fixed Points of Augmented Generalized Happy Numbers* (in preparation).

C. Eubanks-Turner, I. Fene, A. Li, B. Thibodeaux, *Interlace Polynomials of the Friendship Graph and other triangulated graphs*.²

E. Celikbas, **C. Eubanks-Turner**, S. Wiegand, *Prime Ideals of Two-Dimensional Quotients of Mixed Power Series/Polynomial Rings* (in preparation).

OTHER

PRESENTATIONS

Coloring Outside the Lines Apr. 2014
Junior Faculty Seminar, Loyola Marymount University, Los Angeles, CA.

Forming a Math Circle May 2011
Enhancing Content for Comprehension in Undergraduate Mathematics Workshop, University of Louisiana at Lafayette, Lafayette, LA.

Prime Ideals in Extensions of Power Series Rings Oct. 2010
Southern Regional Algebra Conference, University of Louisiana at Lafayette, Lafayette, LA.

Spectacular Specs: Prime ideals of rings over the integers Mar. 2007
Mathematical Association of America Sectional Meeting, Dakota State University, Madison, SD.

Prime Ideals in Birational Extensions of Two-Dimensional Power Series Rings Mar. 2007
Graduate Student Seminar, University of Nebraska-Lincoln, Lincoln, NE.

UNIVERSITY &
DEPARTMENTAL
SERVICE**Loyola Marymount University**

Member, LMU Multiethnic Taskforce, Jan. 2015 - Present
Member, Mathematics Department Seminar Committee, Aug. 2014 - Present
Summer Faculty Associate, McNair Scholars Program, Jun. 2014
Member, Math & Science Teacher Education Preparation Committee, Feb. 2014 - Present

Invited Speaker, McNair Program, Dec. 2013
Member, CREATE-STEM Education Group, Aug. 2013 - Present
Member, Mathematics Department Education Committee, Aug. 2013 - Present
Member, Mathematics Department Sophomore Scholarship Committee, Aug. 2013 - Aug. 2014
Invited Speaker, LMU ACCESS Program, Aug. 2013

University of Louisiana at Lafayette

Organizer, Algebra Seminar, Aug. 2011 - Dec. 2011
Member, Math Department Online Courses Committee, Aug. 2010 - May 2013
Member, Community Service Committee, Aug. 2010 - May 2013
Member, Graduate Faculty, Sep. 2008 - May 2013
Member, Math Department Graduate Recruitment Committee, Sep. 2008 - May 2013
Member, Mathematics Education Committee, Sep. 2008 - May 2013

²Work originating from an undergraduate research project.

University of Nebraska-Lincoln

Facilitator, Math 804T, 807T Orientation Workshop, Sep. 2011, Jan. 2008
Member, Hiring Committee, Oct. 2007 - Jan. 2008
Board Member, Graduate Student Advisory Board, Aug. 2005 - May 2008

PROFESSIONAL
SERVICE**Committees and Boards**

Associate Editor, MAA Classroom Resource Materials Editorial Board
Program Coordinator, MAA SIGMAA on Undergraduate Research
Organizing Member, Association for Women in Mathematics Teacher Partnership Program
Member, Pacific Math Alliance, Pacific Region
Member, Gulf States Math Alliance Advisory Board, Gulf States Region

Referee

Journal of Algebra and its Applications
 PRIMUS
 SIGMAA on RUME Conference Proceeding
 AMS Mathematical Reviews

Founder and Organizer

Acadiana Math Teachers' Circle, Sep. 2009 - May 2013

Organizer

AMS Special Session on Outreach for Mathematically Talented Youth, (Chair) Jan. 2014
 Louisiana Noyce Capacity Building Summit, Jan. 2012
 AMS Special Session on Commutative Algebra, (Chair) Oct. 2011
 Southern Regional Algebra Conference, Oct. 2010
 Nebraska Black Leadership Symposium Special Session on Leadership, Jan. 2006

Panelist

Impressing the Tenure-Track Faculty Search Committee, Nov. 2014
 Alliance Ph.D.'s Tell Their Stories, Field of Dreams Conference, Nov. 2012
 Center for Undergraduate Research in Mathematics Spring Research Conference, Mar. 2011
 The Gallup Leadership Summer Institute, May 2007
 30th Annual Big XII Conference on Black Student Government, Feb. 2007

Mentor

National Alliance for Doctoral Studies in Mathematics, Oct. 2009 - Present

Poster Judge

The MAA 11th Annual Garden State Undergraduate Mathematics Conference, Apr. 2014

Facilitator

Xavier University Math Science Institute, Jul. 2008

COMMUNITY
SERVICE**Grader**

Hands on Exposure to Algebraic Topics (HEAT) middle school math competition, Apr. 2010
 Math in the Middle Alternate Assessment Project, May 2007

Volunteer Coordinator

Allen J. Celestine Foundation Festival of Virtues, Oct. 2009, Oct. 2010
 Woodvale Elementary School Math Symposium, Nov. 2008

Treasurer

Black Graduate Student Association, Aug. 2006 - May 2008

HONORS,
 FELLOWSHIPS
 AND AWARDS

Understanding Interventions Travel Award

Understanding Interventions that Broaden Participation in STEM Careers May 2015

LMU President's Institute

Loyola Marymount University May 2014

LA/MS Section NExT Fellow

Mathematical Association of America Mar. 2009 - Mar. 2010

Project NExT Fellow

Mathematical Association of America Jun. 2008 - Jun. 2010

Certificate of Recognition for Contributions to Students

University of Nebraska-Lincoln Feb. 2007

Mentoring Through Critical Transition Points Fellowship

University of Nebraska-Lincoln Jan. 2006 - Aug. 2006

Graduate Assistance in Areas of National Need Fellowship

University of Nebraska-Lincoln Aug. 2005 - Aug. 2006

Project-Fulcrum Fellowship

University of Nebraska-Lincoln Aug. 2004 - May 2005

Computer Science, Engineering and Mathematics Scholarship

University of Nebraska-Lincoln Aug. 2002 - Aug. 2004

Larson Fellowship

University of Nebraska-Lincoln Aug. 2002 - Aug. 2004

PROFESSIONAL
 DEVELOPMENT

Loyola Marymount University

6th Annual Writing Retreat, Association of Black Women in Higher Education Feb. 2015

Unleashing the Power of Rubrics, CTE Nov. 2014

Intercultural Pedagogy Workshops, Fall 2014-Spring 2015

Writing Meaningful Learning Outcomes, CTE Feb. 2014

Asking the Right Questions: Best Practices for Designing Exams, CTE Sep. 2013

Workshop/Conference (Sponsored Participant)

Research Experiences for Undergraduate Faculty, AIM/ICERM, Jul. 2015

Partnerships: A Workshop on Collaborations between the NSF and private foundations, NSF, Mar. 2015

Research Experiences for Undergraduate Faculty, AIM Jul. 2014

CIME 2014: The Role of the Mathematics Department in the Mathematical Preparation of Teachers, MSRI, 2014	Mar.
CIME 2013: Assessment of Mathematical Proficiencies in the Age of the Common Core, MSRI,	Apr. 2013
How to start a Math Camp, AIM,	Mar. 2013
Combinatorial Commutative Algebra and Applications, MSRI,	Dec. 2012
Common Core State Standards Math Training for University Faculty, Lafayette, LA, Nov. 2012	
IAS/PCMI Workshop for Mentors of Undergraduate Mathematics Research by Minority Students, Park City Math Institute, 2012	Jul.
Enacting Standards for Mathematical Practices Conference, University of Nebraska-Lincoln, Oct. 2011	
Mathematical Field of Dreams Conference, University of Iowa,	Oct. 2010
PREP Workshop on Inquiry Based Learning, MAA,	May 2010
How to run a Math Teachers' Circle Workshop hosted by AIM, MAA,	Jul. 2009
Promoting Diversity at the Graduate Level in Mathematics: a National Forum, MSRI, Oct. 2008	
Visiting Scholar, Educational Testing Services	Jun. 2008
Negotiating an Ideal Faculty Position Workshop, Rice University,	Oct. 2007
Summer School in Commutative Algebra, MSRI	Jun. 2005

PROFESSIONAL
MEMBERSHIPS &
AFFILIATIONS

American Association of University Professors (AAUP)
 American Mathematical Society (AMS)
 Association of Mathematics Teacher Educators (AMTE)
 Association for Women in Mathematics (AWM)
 Mathematical Association of America (MAA)
 National Association of Mathematics (NAM)

CERTIFICATIONS

NIH Protecting Human Research Participants, No: 1498133
 Mathematical Quality of Instruction Instrument, No: 11234