

# David Christopher Owens

11935 Abercorn St., Georgia Southern University, Middle Grades and Secondary Education,  
Savannah, GA 31419  
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901-896-4267

## EDUCATION

- 2016 Ph.D., Mathematics and Science Education (Biology concentration)  
Middle Tennessee State University  
Dissertation: *The Effects of Gamification on Achievement Goal Orientation and Motivation to Learn Biology in an Introductory Undergraduate Laboratory Course*
- 2010 M.S., Aquatic Ecology  
University of Nebraska  
Thesis: *Seasonal Variation in Terrestrial Insect Subsidies to Tropical Streams and Implications for Rivulus Diet*
- 2002 B.S. Animal Biology  
Middle Tennessee State University  
Minors: Chemistry and Education  
\*Tennessee Secondary Science Teaching Endorsements in biology, chemistry, and general science

## PROFESSIONAL EXPERIENCE

- 2018- Present Assistant Professor  
Georgia Southern University, Department of Middle Grades and Secondary Education  
\*Instruct science and education courses, engage in scholarly activity, service, and outreach.
- 2010-Present Outdoor Education Instructor  
Outward Bound  
\*Serve in instructional and logistical roles in order to inspire and develop character in persons from all walks of life through challenge and adventure - above all, compassion.
- 2016-2018 Postdoctoral Research Fellow  
University of Missouri, Department of Learning, Teaching, and Curriculum  
\*Contributed to STEM research in the context of socioscientific issues, conduct professional development with teachers, and support outreach efforts.
- 2012-2016 Graduate Teaching Assistant  
Middle Tennessee State University  
\*Instructed biology courses and managed laboratory sessions while completing graduate coursework and engaging in research.
- 2012 & 2016 Outdoor Education Instructor  
Chadwick School - California and South Korea.

\*Assisted students in honing their leadership and team-building skills through experiential learning in secluded areas of the outdoors, and helped develop a new outdoor education program in South Korea.

- 2014 Fulbright English Teaching Fellow  
Universidade Federal Minas Gerais, Brazil  
\*Improved English skills and developed cultural understanding among undergraduates as part of the Science without Borders program.
- 2007-2010 Graduate Research Assistant  
University of Nebraska  
\*Conducted NSF-FIBR funded research on seasonal variation in terrestrial insect subsidies to streams in Trinidad and implications for *Rivulus* diet.
- 2007 Research Technician  
Idaho State University  
\*Conducted NSF-funded research on the effects of non-native brook trout on stream-riparian ecosystems in the Teton River drainage.
- 2002-2007 Biology Teacher & Soccer Coach  
White Station High School  
\*Taught biology courses, directed laboratory sessions, and coached both men and women's varsity and junior varsity soccer.

## HONORS AND AWARDS

- 2014 Fulbright Award - Brazil English Teaching Program
- 2014 Purple Belt in Brazilian Jiu Jitsu
- 2007 National Honor Roll's Outstanding American Teacher
- 2001 Consortium for Overseas Student Teaching Position in Ecuador for outstanding achievement and community service in the field of education.
- 2001 Kevin Driver Memorial Scholarship for academic achievement. MTSU Biology Dept.
- 2000 Eugene F. Strobel Scholarship for academic achievement. MTSU Biology Dept.
- 1996 Presidential Scholarship for academic achievement. ETSU.

## JOURNAL PUBLICATIONS

- Owens, D. C., Smith-Walters, C. & Barlow, A. T. (2019). Enhancing motivation to learn in a biology laboratory course through gaming: A design case. *International Journal of Designs for Learning*, 12, 53-63.
- Owens, D. C., Herman, B, C. Oertli, R. T., Lannin, A., & Sadler, T. D. (2019). Secondary Science and Mathematics Teachers' Environmental Issues Engagement through SocioScientific Reasoning.

- Herman, B. C., Owens, D. C., Oertli, T., & Zangori, L. (2019). Exploring the Complexity of Students' Scientific Explanations and Associated NOS Views Within a Place-Based Socioscientific Issue Context. *Science & Education*.
- Owens, D. C., Sadler, T. D., & Friedrichsen, P. (2019). Teaching Practices for Enactment of Socioscientific Issues Instruction: An Instrumental Case Study of an Experienced Biology Teacher. *Research in Science Education*.
- Owens, D. C., Pear, R. S. A., Alexander, H. A., Reiss, M. J., & Tal, T. (2018). Scientific and religious perspectives on evolution in the curriculum: An approach based on pedagogy of difference. *Research in Science Education*.
- Owens, D. C., Sadler, T. D., Murakami, C. D., & Tsai, C. L. (2018). Teacher views on and preferences for meeting their professional development needs in STEM. *School Science and Mathematics*.
- Owens, D. C., Sadler, T. D., & Zeidler, D. L. (2017). Controversial issues in the science classroom. *Phi Delta Kappan*, 99, 45-49.
- Owens, D. C., Sadler, T. D., Barlow, A. T., & Smith-Walters, C. (2017). Student motivation from and resistance to active learning rooted in essential science practices. *Research in Science Education*.
- Owens, D. C. (2017). Issues with Tissues: A tale of gameful learning in an introductory undergraduate biology laboratory course. *Journal of College Science Teaching*, 47, 38-42.

#### **MANUSCRIPTS UNDER REVIEW**

- Owens, D. C., Herman, B. C., Smith-Walters, C., Oslund, E. L., & Mertig, A. G, & Barlow, A. T. Examining achievement goal stability and change in gameful learning environments. *Contemporary Educational Psychology*.
- Owens, D. C., Petitt, D., Lally, D., & Forbes, C. T. Cultivating water literacy in undergraduate STEM education: Students' socio-scientific reasoning about socio-hydrologic issues. *Research in Science Education*.
- Owens, D. C., Rafolt, S., Arneson, E. Walking on Eggshells when teaching about human alteration of the biosphere? Use them to introduce your students to Ocean Acidification. *The American Biology Teacher*.
- Owens, D. C., Thaler, M. Crash Test Physics: Investigating Force and Motion with Dolls and Dump Trucks. *Science & Children*.
- Yantz, J. L., Baum, B., Beck, J., Green, L., Owens, D. C., Rowell, G. H., & Stephens D. C. (under review). The development of an instrument to measure the depth of science experience (DOSE). *School Science and Mathematics*.

## MANUSCRIPTS IN PROGRESS

- Owens, D. C., Gutierrez de Blume, A., Miles, K., Hodges, C, Smith-Walters, C., & Barlow, A.T. The effects of gameful learning on undergraduate self-efficacy to learn biology: A mixed methods study.
- Owens, D. C., & Zeidler, D. L. Compassion as a framework for understanding and responding to socioscientific issues.
- Owens, D. C., McCall, G., Jaikaran, K., Miles, K., Cossa, N., & Koballa, K. Using Children's Literature as learning contexts for promoting scientific and linguistic practices in an Undergraduate Science Course for Pre-service elementary teachers.
- Owens, D. C., Heatherly II, T., Eskridge, K., & Thomas, S. (in progress). Seasonal variation in terrestrial insect subsidies to tropical streams and implications for the diet of *Rivulus hartii*.

## BOOK CHAPTERS

- Owens, D. C. (2019). Overcoming motivational barriers to understanding and accepting evolution through gameful learning. In U. Harms & M. J. Reiss (Eds.), *Evolution Education Re-considered*. (pp. 167-184). New York: Springer.
- Owens, D. C., & Sadler, T. D. (in press). Socio-Scientific Issues as Contexts for the Development of STEM Literacy. In C. Johnson, M. Mohr-Schroeder, T. Moore, & L. English (Eds.), *Handbook of STEM Education Research*. New York: Routledge.
- Owens, D. C., Barlow, A. T., & Smith-Walters, C. (in press). Student motivation and resistance in active learning classrooms. In J. J. Mintzes and E. M. Walter (Eds.), *Active learning in college science: The case for evidence-based practice*. Berlin: Springer Nature.

## TECHNICAL REPORTS

- Owens, D. C., & Smith-Walters, C. (2013). *Junior Rangers Programs at Tennessee State Parks: Effect on Activity Levels, Appreciation of Nature, and Standardized Test Scores*. In-house report. Tennessee Department of Environment and Conservation: Tennessee State Parks, Nashville, Tennessee.

## CONFERENCE PRESENTATIONS

- Owens, D. C., & Zeidler, D. L. (accepted, 2020). *Compassion as a framework for understanding and responding to socioscientific issues*. Paper to be presented at the 2020 National Association for Research in Science Teaching International Conference, Portland, OR.
- Owens, D. C., Petitt, D., Lally, D., & Forbes, C. T. (accepted, 2020). *Cultivating water literacy in undergraduate STEM education: Students' socio-scientific reasoning about socio-hydrologic issues*. Paper to be presented at the 2020 National Association for Research in Science Teaching International Conference, Portland, OR.

- Owens, D. C., Pear, R. S. A., Alexander, H. A., & Reiss, M. J. (in review). Scientific and religious perspectives on evolution: An approach based on pedagogy of difference. *The 13<sup>th</sup> Conference of the European Science Education Research Association*.
- Owens, D. C., Herman, B. C., Oertli, R. T., Lannin, A., & Sadler, T. D. (i2019n review). Secondary mathematics and science teachers' reasoning about a socioscientific issue. *The 13<sup>th</sup> Conference of the European Science Education Research Association*.
- Petitt, D., Owens, D. C., Lally, D., & Forbes, C. T. (2019). *Students' Socio-hydrological reasoning and water literacy in an undergraduate water course*. Paper to be presented at the 2019 Earth Educators' Rendezvous, Nashville, TN.
- Herman, B. C., ... Owens, D. C. (2019). *Students' place-based SSI instruction influenced trophic cascade explanations and their association with NOS views*. Paper presented at the 2019 National Association for Research in Science Teaching International Conference, Baltimore, MD.
- Womack, A. J., ... Owens, D. C. (2019). *Automated scoring of a constructed response vision II scientific literacy assessment*. Paper presented at the 2019 National Association for Research in Science Teaching International Conference, Baltimore, MD.
- Owens, D. C., ... (2019). *Engaging students in reasoning about socioscientific issues: Are STEM teachers prepared?* Paper presented at the 2019 Association for Science Teacher Education International Conference, Savannah, GA.
- Herman, B. C., ... Owens, D. C. (2019). *Students' scientific explanations and associated NOS views within a place-based socioscientific issue context*. Paper presented at the 2019 Association for Science Teacher Education International Conference, Savannah, GA.
- Owens, D. C., Smith-Walters, C., Oslund, E. L., & Barlow, A. T. (2018). *The motivational nature of gameful learning environments*. Paper presented at the 2018 American Educational Research Association Annual Conference, New York, NY.
- Owens, D. C., Sadler, T. S., Murakami, C. D., & Tsai, C. L. (2018). *Teacher views on and preferences for meeting their professional development needs in STEM*. Paper presented at the 2018 American Educational Research Association Annual Conference, New York, NY.
- Owens, D. C., Sadler, T. D., Barlow, A. B., & Smith-Walters, C. (2018). *Do they like it or not? Student motivation from and resistance to active learning rooted in essential science practices*. Paper presented at the 2018 National Association of Research in Science Teaching, Atlanta, GA.
- Owens, D. C., Sadler, T. D., & Friedrichsen, P. (2018). *Teaching practices for enactment of socio-scientific issues oriented teaching: How a seasoned teacher delivers SSI*. Paper presented at the 2018 National Association of Research in Science Teaching, Atlanta, GA.
- Friedrichsen, P., Ediger, V., Gallow, B., Graham, M., Hakert, T., Hirsch, H., Klatka, J., Laster, S., McGovney, K., McKiddy, J., Morris, B., Negron, M., Oertli, T., Owens, D., Singleton, J. & Young, J. (2017). *Appy Hour: Exploring Technology to Support Science Learning*. Science Teachers of Missouri Fall Conference, Columbia, MO.

- Owens, D. C., Barlow, A. T., Smith-Walters, C., Oslund, E. L., & Mullen, D. (2017). *Gamification and the enhancement of motivation to learn biology in an introductory undergraduate laboratory course*. Paper presented at the National Association for Research in Science Teaching International Conference, San Antonio, TX.
- Owens, D. C. (2016). *The effect of gamification on students' perception of learning environment and motivation in an introductory undergraduate biology laboratory course*. Paper presented at the Association for Science Teacher Education International Conference, Reno, NV.
- Owens, D. C. (2015). *You CAN have it all: Positive gains in nature appreciation, health, and academic achievement*. National Science Teacher Association National Conference on Science Education, Chicago, IL.
- Smith-Walters, C., Owens, D. C., & Bonner, J. (2013). *Educating students for a sustainable world*. Tennessee Association for the Gifted Conference, Murfreesboro, TN.
- Smith-Walters, C., Barker, H. L., & Owens, D. C. (2013) *Who eats whom? Investigating food chains and food webs*. Seminar presented at the Tennessee Science Teachers' Association (TSTA) Professional Development Conference, Murfreesboro, TN.
- Smith-Walters, C., Owens, D. C., & Barker, H. L. (2013). *Unbar the door! and enhance student learning experiences outside the classroom*. Seminar presented at the Tennessee Science Teachers' Association (TSTA) Professional Development Conference, Murfreesboro, TN.
- Owens, D. C., & Thomas, S. (2010). *Seasonal variation in terrestrial insect subsidies to tropical streams and implications for Rivulus diet*. North American Benthic Society, Santa Fe, New Mexico.
- Owens, D. C., Benjamin, J., & Baxter, C. (2008). *Effects of population density on feeding behavior by brook and cutthroat trout in an Idaho stream*. North American Benthic Society, Salt Lake City, Utah.

#### **CONFERENCE PRESENTATIONS IN REVIEW**

- Owens, D. C. & Zeidler, D. L. (under review, 2020). *Compassion as a framework for understanding and responding to socioscientific issues*. Paper presented at the 2020 National Association for Research in Science Teaching International Conference, Portland, OR.
- Owens, D. C. & Zeidler, D. L. (under review, 2020). *Cultivating water literacy in undergraduate STEM education: Students' socio-scientific reasoning about socio-hydrologic issues*. Paper presented at the 2020 National Association for Research in Science Teaching International Conference, Portland, OR.

## **INVITED PRESENTATIONS**

Owens, D.C. (April, 2020). *Bridging the partisan gulf: Employing compassion toward the successful resolution of socioscientific issues*. Robert I. Strozier Faculty Lecture Series, Georgia Southern University.

Owens, D.C. (October, 2017). *Seasonal variation in subsidy delivery to tropical streams: A gameful teaser of ecological proportions*. Abell Conversations about College Science Teaching, University of Missouri.

Owens, D.C. (September, 2017). *Overcoming the motivational barriers to understanding and accepting evolution through gameful learning*. Evolution Education Symposium, Leibniz Institute for Science and Mathematics Education, Kiel, Germany.

Owens, D. C. (August, 2014) *Country songwriter's workshop: What works in a EFL Workshop and why*. Fulbright ETA Regional Enhancement Seminar, Sao Paulo, Brazil.

## **CONFERENCE WORKSHOPS**

Owens, D. C. (2015). *Pedagogical content knowledge through an ecological lens of energy flow: Using Next Generation Science Standards to introduce PCK for Science Teaching*. The Association for Science Teacher Education International Conference, Portland, OR.

## **INTERVIEWS/PRESS**

Owens, D. C. (February, 2018). The socioscientific issues approach: Addressing controversial issues in the science classroom. *Lab Out Loud: Science for the Classroom and Beyond* [Audio Podcast]. Support for Lab Out Loud is provided by the National Science Teachers Association. Retrieved from <https://laboutloud.com/2018/02/episode-181-socioscientific-issues/>

## **GRANT PROJECTS**

### ***Internal – Funded***

2019. PI. Funding for Undergraduate Student Research Assistant, Office of Research Services and Sponsored Programs at Georgia Southern University. \$2,160. Self-Efficacy in Gameful Learning Environments.

2019. PI. National Youth at Risk Grant. \$4,500. Experiential Education as a context for youth development: Self-Regulation through Sea-Kayaking. (with Antonio Gutierrez de Blume, Alisa Leckie, and Taylor Norman).

2019. PI. College of Education STEM Seed Grant Competition, Georgia Southern University. \$2,500. Children's Literature as learning contexts for promoting scientific and linguistic practices in an Undergraduate Science Course for Pre-service elementary teachers: The Very Hungry Caterpillar as a test case.

2018. PI. College of Education Seed Grant Competition, Georgia Southern University. \$2,881. SocioScientific Issues as contexts for integrating STEM through modeling: Ocean acidification as a model issue.
2018. Co-PI. Campus Life Enrichment Committee, Georgia Southern University. \$1,380. Education exposed—the experiences of marginalized youth: A film series (with Regina Rahimi & Kathleen Fabrikant).
2017. PI. Missouri University Postdoctoral Association Travel Award, \$175. Gamification and the enhancement of motivation to learn biology in an introductory undergraduate laboratory course.
2016. PI. Mathematics and Science Education Dissertation Mini-grant, Middle Tennessee State University, \$250. The Effects of Gamification on Academic Achievement, Motivation, and Achievement goal orientation in an introductory undergraduate biology course.
2010. PI. School of Natural Resources Graduate Student Association Travel Grant, University of Nebraska, \$250. Seasonal variation in terrestrial insect subsidies to tropical streams and implications for Rivulus diet.
2010. PI. David H. & Annie E. Larrick Memorial Travel Fund, School of Natural Resources, University of Nebraska, \$500. Seasonal variation in terrestrial insect subsidies to tropical streams and implications for Rivulus diet.

***Internal - Not Funded***

2019. PI. College of Education Seed Grant Competition Georgia Southern University. \$3,000. Compassion as a framework for understanding and responding to socioscientific issues.
2017. PI. Student Teaching as Research Projects Mini-Grant, University of Missouri, \$1500. The Effect of CLIMATE WORLD Modeling Simulation and Role Play on Modeling Proficiency and Socio-Scientific Reasoning about Climate Change (with William R. Folk).
2013. PI. Instructional Evaluation and Development grant, Office of the Provost, Middle Tennessee State University, \$2,250. Development and Implementation of an Inquiry-Based Plant Evolutionary Biology Curriculum for an Undergraduate Laboratory Course (with Cindi Smith-Walters).

***External – Not Funded***

2020. PI. Wabash Center for Teaching and Learning in Theology. \$30,000. ‘Pedagogy of Difference’: Evaluating a novel intervention’s promotion of epistemic insight regarding science and religion perspectives in the context of the evolution.
2015. PI. East Asia and Pacific Summer Institute grant, National Science Foundation. \$5,000. Effects of Emotional Arousal during Learning on Performance, Motivation, and Interest (with Cindi Smith-Walters).
2013. Co-PI. Environmental Education grant, Environmental Protection Agency. \$210,000. Scientist in the Classroom: Increasing Awareness of Environmental Careers and Improving Local Environmental Quality (with Bonnie Ervin, Cindi Smith-Walters, & Michelle Rogers).

## **TEACHING**

Georgia Southern University

ISCI 2001 Life/Earth Science

ISCI 2002 Physical Science

EDUC 2130 Exploring Learning & Teaching

FYE 1000 Conversations with Professors

ESED-4090/SCED-6738 Internship I/ Supervised Practicum

University of Missouri (Mentored Teaching Intern with Dr. Pat Friedrichsen)

Biology 4994/7002 Middle and Secondary Biology Teaching Methods Course

Middle Tennessee State University (Instructor of Record)

Biology 1030 Introduction to Biology for non-Majors Lecture Course

Biology 1031 Introduction to Biology for non-Majors Laboratory Course

Biology 1111 Introduction to Biology (Semester 1) for Majors Laboratory Course

Biology 1121 Introduction to Biology (Semester 2) for Majors Laboratory Course

Ecology 3401 Laboratory Course

White Station High School (Instructor of Record)

General Biology

## **CERTIFICATIONS**

- |      |  |
|------|--|
| 2017 | Master Gardener Certification<br>University of Missouri Extension                |
| 2016 | Wilderness First Responder and Professional CPR<br>Wilderness Medicine Institute |
| 2011 | Yoga Teacher Certification<br>Yoga Alliance, Rishikesh Yog Peeth, India          |
| 2005 | Professional Teaching License<br>State of Tennessee Department of Education      |

## **PROFESSIONAL LEADERSHIP AND SERVICE**

### **Service to the field**

- 2018-Present The National Association for Research in Science Teaching  
Co-Chair of Strand 2: Science Learning: Contexts, Characteristics, and Interactions
- 2019 Journal of Research in Science Teaching  
Review articles submitted to the journal for publication.
- 2019 Science Education  
Review articles submitted to the journal for publication.
- 2019 School Science and Mathematics  
Review articles submitted to the journal for publication.
- 2018 Journal of Research in Science Teaching  
Review articles submitted to the journal for publication.
- 2017 The American Biology Teacher  
Review articles submitted to the journal for publication.
- 2017 The National Association for Research in Science Teaching  
Review proposals for the international conference.
- 2016 The Association for Science Teacher Education  
Reviewed proposals for the international conference.

### **University, College, and Departmental**

#### ***Georgia Southern University***

- 2019-2020 STEMfest Planning Committee  
Jobs duties will be to spread the word about STEMfest and get COE faculty (and encourage students) to set up booths at the event, help advertise and promote. Provide feedback on setup, and logistics and provide support during the day of the event.
- 2019 Facilitator, STEM Night at Calvary Day School  
Facilitated hands-on learning for students regarding the physics behind throwing a curve ball.
- 2019 Facilitator, Future Georgia Educators Day  
Facilitated a session on compassion for science literacy at an event for Georgia high school students interested in pursuing a career in the field of education (Sponsored by The Georgia Southern College of Education (COE) in partnership with the Professional Association of Georgia Educators) to host the annual Future Georgia Educators Day on Thursday, September 26, on the University's Statesboro Campus.
- 2019 Facilitator, STEMfest

Facilitated hands-on learning about force for children attending the annual STEMfest, with the goal of engaging the general public in learning about STEM while providing opportunities for undergraduates to develop student management skills.

- 2019, Fall Facilitator, STEM Field Experience with Atlanta Future Teachers  
Facilitated modeling activities with students from Atlanta Public Schools as part of a STEM event sponsored by Georgia Southern's Interdisciplinary STEM Institute.
- 2019 Session Leader, Conversations with Professors  
Conversations with Professors is designed to promote a conversation between a faculty member and a group of students in his or her college about how to get off to a successful start during the first week of classes, understand their roles as student learners, and to express faculty expectations for student engagement.
- 2019 Facilitator, Dahlonega Science Festival  
Facilitated hands-on learning about force for children attending the annual science festival, with the goal of engaging the general public in learning about science.
- 2019, Spring Facilitator, STEM Field Experience with Atlanta Future Teachers  
Facilitated modeling activities with students from Atlanta Public Schools as part of a STEM event sponsored by Georgia Southern's Interdisciplinary STEM Institute.
- 2018 Facilitator, STEMfest  
Facilitated hands-on learning about force for children attending the annual STEMfest, with the goal of engaging the general public in learning about STEM while providing an opportunity for my graduate student supervisee to develop student management skills.

### ***University of Missouri***

- 2017-2018 Chair, MU Postdoctoral Association  
Fostered professional development and social interaction to provide community and a collective voice; and to liaison between postdoctoral fellows, faculty, and administration.
- 2017 Ft Zumwalt Grow Your Own Teachers Leadership Conference  
Presented science methods activities to aid in the recruitment of science teachers.

### ***Middle Tennessee State University***

- 2013 - 2016 Judge, University-Wide Scholars Day Poster Session.  
Observed undergraduate research posters, providing feedback as well as motivation to pursue their interests in science.
- 1998-2001 Tutor, Hobgood Elementary  
Volunteered mathematics and literacy tutoring to second graders.

### ***University of Nebraska***

- 2009-2010 Social Chair, School of Natural Resources Graduate Student Association  
Coordinated activities that fostered graduate student involvement, including the planning of outreach activities, social events and fundraisers.
- 2009-2010 Environmentor  
Mentored up-and-coming scientists with Up-Ward Bound and Lincoln Public Schools.
- 2009-2010 City Impact Reading Center  
Taught reading skills one-on-one with kids from Clinton Elementary in Lincoln, Nebraska.

### ***White Station High School, Memphis, TN***

- 2005-2009 Wolf River Conservancy  
Guided potential donors and other guests on float trips in an effort to preserve the Wolf River and its environs as a natural resource.
- 2004-2009 Big Brother Big Sister  
Mentored a "little" by taking an interest in his life and spending quality time on schoolwork, athletics, and outdoor activities.
- 2005-2006 St. Jude Volunteer  
Provided amenity relief and spread joy to children receiving treatment.

## **MEMBERSHIP (PAST AND PRESENT) IN PROFESSIONAL ORGANIZATIONS**

National Association for Research in Science Teaching

American Educational Research Association

Association for Science Teacher Education

National Association of Biology Teachers

National Science Teachers Association

North American Benthological Society

## **INTERESTS**

Fishing, volunteering, chess, guitar, travel, soccer, climbing, paddling, skiing, painting, martial arts