

CURRICULUM VITAE

Sehoya Cotner

Academic Rank

- Associate Professor, Department of Biology Teaching and Learning, College of Biological Sciences, University of Minnesota-Twin Cities
- Graduate Faculty, Department of Curriculum and Instruction, College of Education and Human Development, University of Minnesota-Twin Cities

Education

B.S.	North Carolina State University Raleigh, NC Biological Sciences	1992
Ph.D.	University of Minnesota St Paul, MN 55108 Conservation Biology	1999

Positions/Employment

University of Minnesota-Twin Cities Associate Professor	2015-current
University of Bergen (Norway) Adjunct Professor	2016-current
University of Minnesota-Twin Cities Teaching Assistant/Associate Professor	2002-2015
The Pennsylvania State University-University Park Instructional Faculty	1999-2002
University of St Thomas (St Paul, MN) Adjunct Faculty	1999
Hamline University (St Paul, MN) Center for Global Environmental Education Education Specialist	1998-1999

Current Membership in Professional Organizations

- National Association of Biology Teachers (NABT)
- Society for the Study of Evolution (SSE)
- Course-based undergraduate research experience network (CUREnet)

- National Associate for Research in Science Teaching (NARST)

HONORS AND AWARDS

University of Minnesota

- Morse Undergraduate Teaching Award, 2014.
- GLBTA (Gay, Lesbian, Bisexual, Transgender Ally Community, University of Minnesota) Breaking the Silence Award, 2014.
- President's Distinguished Faculty Mentoring Program, University of Minnesota, 2010-current.
- GLBTA (Gay, Lesbian, Bisexual, Transgender Ally Community, University of Minnesota) Faculty Leadership Award, 2012.
- Office of Information Technology (University of Minnesota) Faculty Fellow, 2010-2011.
- Dagley-Kirkwood Undergraduate Education Award, College of Biological Sciences, University of Minnesota, 2009.

External Sources

- National Association of Biology Teachers (NABT) University Biology Teaching Award, 2016.
- Neighborhood Honor Roll recipient, November 2007, awarded by the City of St. Paul for work on the Como Woodland Advisory Board and Como Woodland Outdoor Classroom, District 10, St. Paul, MN.
- Team member (and grant recipient) on the Archibald Bush Foundation Project: "Promoting Student Learning in Large Classes," 2004-2007.
- Part of a team (with Robin Wright, Mark Borrello, and Cathy Kipper) selected to attend an NSF-sponsored SENCER workshop, Santa Clara (CA), August 2006.
- Selected (along with Mark Decker) to participate in the USDA-sponsored "Bioethics Institute" at Iowa State University May 23-May 27.
- Co-recipient of PSU's Fund for Excellence in Learning and Teaching (FELT), 2000.

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants and Contracts

External Sources

Received at the University of Minnesota:

- Senior Personnel (Adam Gordon, PI), NSF-SBIR, "Collaborative game approach to support classroom instruction of difficult-to-teach science concepts," 2017-2019, \$728,284.00.
- Co-PI, NSF-DUE, "A Study on Promoting Reflective and Equitable Practice through Science Teacher Induction," 2015-2018, \$800,000.
- PI, CURE.net grant, "Course-based Undergraduate Research Experiences for Non-majors," workshop to be convened June 2016 in Minneapolis, \$11,380.
- PI, NSF-IUSE: "Integrated Science Education for Discovery in Introductory Biology," 2014-2019, \$1,892,788.
- Co-PI (James Cotner, PI), NSF-REU: "Global Change Ecology at the Headwaters of the Mississippi River," 2008-2010, \$223,923.

University Sources (examples below – include the titles, dates, and amount of the awards)

- Co-PI (with George Heimpel, PI, and Julia Ponder), Institute on the Environment mini-grant, "Invasive species in the Galapagos Islands – Challenges and Solutions," June 2015, \$3000.

- PI, North Star STEM Alliance grant, “Bridge to Research Experiences for Undergraduates,” February-June 2008, \$15,000.
- Co-PI (with JD Walker, CEI) on one-year grant extension to develop media supplements for “Evolution and Biology of Sex” course, Archibald Bush Foundation, January 2008-January 2009, \$10,000.
- Team member (and grant recipient) on the Archibald Bush Foundation Project: “Promoting Student Learning in Large Classes,” 2004-2007, \$10,000.

Publications

Books

- Cotner, S. Evolution and Biology of Sex, 4th edition (lab manual). 2016. Bluedoor: Minnesota.
- Moore, R. and Cotner, S. 2013. Understanding Galápagos—What You’ll See and What It Means, McGraw-Hill: New York, NY.
 - Reviewed in NCSE Reports by Kenneth Saladin, November-December 2014.
 - Reviewed by Swen Lorenz, Director of the Charles Darwin Foundation: <http://www.galapagos.org/blog/understanding-galapagos/>
- Cotner, S., *Kempnich, M. and *Kleinschmidt, J. 2012, Video Podcasts Add Life to General Zoology, in Duin, Nater, and Anklesauria, eds, Cultivating Change in the Academy-- 50+ Stories from the Digital Frontlines, University of Minnesota, open-source ebook.
- Cotner, S. and Moore, R. 2011. Arguing for evolution: an encyclopedia for understanding science. Greenwood Press: Westport, CT.
- Moore, R., Decker, M.D. and Cotner, S. 2009. No prospect of an end: a chronology of the evolution-creationism controversy. Greenwood Press: Westport, CT.
 - Recipient of the Outstanding Reference Source Award, given by the Reference User Services Association (a division of the American Library Association)

Refereed Journal Articles

***indicates undergraduate co-authors**

- Ballen, C., Lee, D., Rakner, L., and Cotner, S. Politics a “chilly” environment for women in Norway. In review.
- Jenö, L.M., Cotner, S., and Vandvik, V. Gender differences in Norwegian biology students. In review.
- Neill, C., Cotner, S., and Wisenden, B. Solar-powered flow-through system for aquatic field studies. In review.
- Ballen, C.,..., and Cotner, S. Course-based undergraduate research experiences for non-majors: a meeting report. In press at *Cell Biology Education-Life Sciences Education*.
- Cotner, S., Thompson, S., and Wright, R. Do biology majors really differ from non-majors? In press at *Cell Biology Education-Life Sciences Education*.
- *Galush, T., *Mazur, C., and Cotner, S. An interesting hermit crab-hydrozoan symbiosis to engage students in course-based research. In press at *CourseSource*.
- Walker, JD, *Franta, G, Wassenberg, D, and Cotner, S. What determines student acceptance of politically controversial scientific topics? In press at *Journal of College Science Teaching*.
- Ballen, C., Danielsen, M., Jørgensen, C., Grytnes, J-A., & Cotner, S. (2017). Norway’s gender gap: classroom participation in undergraduate introductory science. *Nordic Journal of STEM Education* 1(1).
- Cotner, S., Jenö, L.M., and Ballen, C. (2017). Strategies to document active learning practices in biology. *Nordic Journal of STEM Education* 1(1).

- Thompson, S., *Neill, C., *Wiederhoeft, E., and Cotner, S. 2016. A model for a course-based undergraduate research experience (CURE) in a field setting. *JMBE* 17(3): 469-471.
- Cotner, S., *Graczyk, H., Rodriguez Garcia, J.L., and Moore, R. 2016. In Galápagos... and uncomfortable with evolution. *Journal of Biological Education Vol. 50, No. 2, 115–119.*
- *Pan, T., *Gladen, K., *Duncan, E., Cotner, S., Cotner, J., McEwan, D., and Wisenden, B. 2016. Bold, sedentary minnows have more parasites. *Zebrafish*.
- Cotner, S., and Hebert, S. 2016. Bean beetles make biology sexy. *American Biology Teacher* 78 (3): 233-240.
 - Selected as an NABT BioClub selection.
- Cotner, S., Brooks, D., and Moore, R. 2014. Evolution and student voting patterns. *Reports of the National Center for Science Education* 34(6): 1-11.
- *Schauer, Cotner, and Moore, Teaching evolution to students with compromised backgrounds and confidence about evolution—is it possible? 2014. *The American Biology Teacher* 76(2): 93-98.
- Ratcliff, *Raney, *Westreich and Cotner, A novel laboratory activity for teaching about the evolution of multicellularity, 2014. *The American Biology Teacher* 76(2): 81-87.
- Cotner, *Loper, Walker and Brooks, D. 2013. It's Not You, It's the Room (or, Are the High-Tech, Active Learning Classrooms Worth It?), *Journal of College Science Teaching* 42(6), 82-88.
- Moore, R. and Cotner, S. 2013. Evolution and Creationism in America's Biology Classrooms, *BioLogos Forum*, at: <http://biologos.org/blog/teaching-evolution-and-creationism-in-americas-biology-classrooms?showfuture=true#notes>.
- Cotner, S. & Gallup Jr, G.G., 2011, Introductory Biology Labs... They Just Aren't Sexy Enough!, *Bioscience Education*, 18, p. 5.
- Walker, J.D., Cotner, S., *Beermann, N. & Walker, J.D., 2011. Vodcasts and Captures: Using Multimedia to Improve Student Learning in Introductory Biology, *Journal of Media and Hypermedia*.
- Moore, R., Brooks, D.C. & Cotner, S., 2011, The Relation of High School Biology Courses & Students' Religious Beliefs to College Students' Knowledge of Evolution, *The American Biology Teacher*, 73(4), pp. 222-6.
- Cotner, S., *Ballen, C., Brooks, D.C. and R. Moore. 2011. "Instructor Gender and Student Confidence in the Sciences: A Need for More Role Models?" *Journal of College Science Teaching* 40(5), pp. 96-101.
- *Uyehara, I.K., T. Gamble, and S. Cotner. 2010. "The presence of ranavirus in anuran population at Itasca State Park, Minnesota, USA." *Herpetological Review* 41(2): 177-179.
- Cotner, S., Brooks, D.C., and R. Moore. 2010. "Is the age of the earth one of our "sorest troubles"? Students' perceptions about deep time affect their acceptance of evolutionary theory. *Evolution* 64(3): 858-864.
- Moore, R., S. Cotner and *A. Bates. 2009. The Influence of Religion and High School Biology Courses on Students' Knowledge of Evolution When They Enter College. *Journal of Excellence in Teaching* (Special Issue on Evolution Education) 9: 3-11.
- Cotner, S. and R.M. Moore. 2009. The Creationist down the Hall: Does it matter when teachers teach creationism? *BioScience* 59(5): 429-435.
- Wright, R., S. Cotner, and A. Winkel. 2009. Minimal impact of organic chemistry prerequisite on student performance in introductory biochemistry. *CBE-Life Sciences Education*.
- *Rodriquez, E.M., T. Gamble, V. Hirt and S. Cotner. 2009. Presence of chytrid fungus (*Batrachochytrium dendrobatidis*) at the headwaters of the Mississippi River, Itasca State Park, Minnesota. *Herpetological Review*.

- Cotner, S. and R.M. Moore. 2009. Rejecting Darwin: The Occurrence and Impact of Creationism in High School Biology Classrooms. *American Biology Teacher*.
- Walker, J.D., Cotner, S.H., Baepler, P.M. & Decker, M.D., 2008, A delicate balance: integrating active learning into a large lecture course, *CBE—Life Sciences Education*, 7(4), p. 361.
- Moore, R.M. and S. Cotner. 2008. Educational Malpractice: The Impact of Including Creationism in High School Biology Courses. *Evolution: Education and Outreach*.
- Cotner, S., B. Fall, S. Wick, J. Walker and P. Baepler. 2008. Instant Feedback Assessment Methods: Can we improve engagement, enjoyment, and preparation for exams in large-enrollment biology courses? *Journal of Science Education and Technology* 17: 437-443.
- Cotner, S., P. Baepler and *A. Kellerman. 2008. Scratch This!: The IF-AT as a technique for stimulating group discussion and exposing misconceptions. *J Coll Sci Teaching* March/April 48-53.
- Harris [Cotner], S.E., D.M. Woodward, *J.L. Fontaine and F.H. Barnwell. 1998. Visual and acoustic signaling in the musical fiddler crab (*Uca musica*) from western Mexico. *American Zoologist* 38(5).

Non-refereed

- Cotner, S. 2007. “Preparing not to lecture: Does active learning really work?” *Transform* (a publication of the U of M’s Center for Teaching and Learning/Academy of Distinguished Teachers) 2(1) 1, 7-8.
- Cotner, S. 2007. “A Tribute to Gregor Mendel.” Exhibit review for *Genetics*, the newsletter of the Genetics Society of America 4(1): 2-3.

Presentations

Invited Presentations

- University in Bergen Student Center Feature Seminar, “Improving Gender Equity in Science,” Bergen, Norway. (featured in local news: <http://www.studvest.no/hvor-blir-det-av-kvinnene/>)
- University Center in Svalbard, student-organized seminar speaker: “Improving Gender Equity in Science,” Longyearbyen, Svalbard, Norway.
- University Center in Svalbard, seminar speaker: “Course-based research experiences turn all students into researchers,” Longyearbyen, Svalbard, Norway.
- University Center in Svalbard, seminar speaker: “The Teaching Landscape in Biology at UiB,” Longyearbyen, Svalbard, Norway.
- BioCEED, University of Bergen and the Polar Research Institute (Bergen and Svalbard, Norway) seminar speaker: “The Teaching Landscape in Biology at UiB,” Bjornfjorden, Norway, December 2016.
- National Association of Biology Teachers Award Talk: “Barriers to Teaching and Learning Evolution: Getting Beyond the Obvious.” Denver, CO, November 2016.
- University of Puget Sound (WA): “Sex Sells: Using the Evolution and Biology of Sex to Teach the Nature of Science.” Tacoma, WA, November 2016.
- University of Bergen (Norway) Administrative Leaders seminar speaker (invited): “All faculty can become discipline-based educational researchers,” Osoyro, Norway, April 2016.
- Federal University of Rio Grande do Norte (UFRN) seminar speaker (invited) “The evidence for evidence-based teaching,” Natal, Brazil, March 2016.
- Cornell University EvoLearn seminar series (invited) “Getting beyond the obvious—overcoming barriers to teaching and learning evolution,” Ithaca, NY, Feb 2016.

- Institute on the Environment-sponsored workshop (Invasive species in the Galapagos Islands – Challenges and Solutions), June, 2015, St Paul, MN: “Pirates, Scientists, and Other Scoundrels... a history of human impact in Galápagos.”
- Department of Biology, University of Bergen (Norway) seminar speaker (invited): “The evidence for evidence-based teaching,” Bergen, Norway, December 2015.
- Active Learning Workshop (invited): “Low-effort, high-impact strategies for making your class more active,” Bergen, Norway, December 2015.
- BioCEED, University of Bergen and the Polar Research Institute (Bergen and Svalbard, Norway) seminar speaker: “Course-based undergraduate research experiences turn all students into scientists,” Bjornfiorden, Norway, December 2015.
- Departments of Natural Sciences and Education (combined), St. Olaf College (MN), “Research in the Science Classroom (with Catherine Kirkpatrick and Stephen Ekkert),” October 2015.
- Active Learning Workshop (invited to co-lead, with Susan Wick): “Active-Learning Classrooms,” St Norbert College, WI, June 2014.
- Department of Biology, New Mexico State University seminar speaker (invited): “Are the Active-Learning Classrooms Worth the Investment? March 2014.
- Minnesota Atheists Darwin Day seminar (invited): “Are humans still evolving?” February 2014.
- Campus Atheists and Secular Humanists seminar (invited): “Are Humans Still Evolving?” November 2013.
- College of Biological Sciences Bio-Diversity Brown-Bag Series: “What’s Diversity Got to Do with Teaching Biology?,” November 2013.
- Office of Equity and Diversity (U of Minnesota) Workshop leader (invited): “Diversity in the Curriculum,” Fall 2011 and Spring 2013
- Minnesota Atheists Darwin Day seminar (invited): “Fun Myths about Evolution, Exposed,” February 2013.
- College of Veterinary Medicine seminar (invited): “Learning to Love the New Active-Learning Classrooms,” November 2012.
- Simposio Universitario sobre Educacion Sexual (SUSEX)/University Symposium on Sex Education, University of Puerto Rico-Cayey (invited), “Lo que los estudiantes les interesa y preguntan sobre el sexo,” February 2011.
- Visiting Instructor, Universidade Federal do Rio Grande do Norte, Natal, Brazil, Fall 2011.
- Pearson Strategies for Success Conference, Workshop (invited): “The Slacker’s Guide to Active Lecturing.” April 2010.
- University of Puerto Rico-Cayey, Evolution Seminar Series (invited): “Educational Malpractice: What Happens When We Ignore Evolution in Biology Education?” November 2009.
- Michigan State University, Biology Education Seminar Series (invited): “The Creationist Down the Hall.” April 2009.
- Technology Enhanced Learning seminar (invited): “iTunes U and Beyond: Perspectives of Faculty.” Panelist. November 2008.
- Evolution 2008 Workshop (invited). “Preparing Students for College Biology.” With Mark Decker and Randy Moore. June 2008.
- Friday noon seminar (EEB, CBS, U of MN): “Sex sells, but can it teach?” February 2008.
- College of Veterinary Medicine seminar (invited): “A slacker’s guide to in-class assessment,” September 2007.
- Teaching Enrichment Series (invited/workshop): “A slacker’s guide to in-class assessment,” August 2007.

- Enriching the Academic Experience of College Science Students, May 2007 (Ann Arbor, MI), presented: “Student-Faculty interactions: from the field to the classroom and college community.”
- Best Practices Institute plenary (invited talk for the University of Minnesota’s Allied Health Sciences Education meeting, May 2007): “What *are* they thinking? A slacker’s guide to in-class assessment.”
- College of Veterinary Medicine seminar (invited): “Notes from the front lines: Active lecturing versus traditional format in introductory biology,” March 2007.

Contributed Papers

- MNT Conference: “Documenting the Teaching Landscape in Biology at UiB,” March 2017.
- ASLO Annual Meeting: “Reef Check Eco-divers Make Course-Based Research Broadly Relevant,” February 2017.
- AAU STEM Network Conference: “STEM Initiatives at the University of Minnesota,” October 2015.
- National Association of Biology Teachers Annual Meeting: “Using Sex and Live Organisms to Engage Non-Majors Biology Students,” November 2013.
- University of Minnesota’s Academy of Distinguished Teachers Fall Meeting: “Active Learning Classrooms,” October 2013.
- National Forum on Improving Undergraduate Education Through Active Learning Spaces: “Learning to Love the New Active-Learning Classrooms,” August 2013.
- National Association of Biology Teachers Annual Meeting: “Teaching Evolution and the Nature of Science Using the Primary Literature,” November 2012.
- National Association of Biology Teachers Annual Meeting: “Why Do College Students Know About Sex? Does It Matter?,” November 2012.
- National Association of Biology Teachers Annual Meeting: “Introductory Biology: It’s Just Not Sexy Enough,” October 2011.
- National Association of Biology Teachers Annual Meeting: “Instructor Gender and Student Confidence in Biology,” October 2011.
- National Association of Biology Teachers Annual Meeting: “Creationism in the High School Biology Classroom: Does It Have an Impact?” with Randy Moore. October 2008.
- Academy of Distinguished Teachers Conference, University of Minnesota, April 2007. Co-presented: “Changing Minds: Identifying, Challenging and Correcting Misconceptions.”
- Focusing on the First Year, Fall 2006 (Minneapolis, MN), Co-presented: “The Nature of Life: A Freshman Orientation Course That Builds Community, Teaches Strategies for Success in College, and Introduces the Disciplines of Biology.”
- Science Education for New Civic Engagements and Responsibilities (SENCER) Summer Institute, August 2006 (Santa Clara, CA), presented: “Biology, Society & the Environment: A Course for Developing Science Literacy in Liberal Arts Majors.”
- Enriching the Academic Experience of College Science Students, May 2006 (Ann Arbor, MI), Co-presented: “The Nature of Life: A Freshman Orientation Course That Builds Community, Teaches Strategies for Success in College, and Introduces the Disciplines of Biology.”
- National Association for Research in Science Teaching (NARST), April 2002 (New Orleans), presented: “The Penn State Biology Project: Student Engagement in Lecture and Interactive Computer Tutorials.”
- Society for Integrative and Comparative Biology, January 2002 (Anaheim, CA), presented: “Getting beyond the large-class problem: Can we better tailor education to the individual student?”

TEACHING AND CURRICULUM DEVELOPMENT

***Indicates courses I developed**

University of Minnesota

- *Biology of the Galápagos (study abroad experience): Biology 4950 (S'08-current)
- *Foundations of Biology Field Course: Biology 3004 (S'15)
- *Tropical Reef Ecology (study abroad experience): Biology 4950 (J-term – 2007-current)
- *Evolution in Galápagos: Then and Now (visiting scholar, hosted by the University of Brazil in Natal, Brazil): S'11
- *Issues in Global Change Ecology (summer research seminar series/S'08, S'09)
- *Evolution and Biology of Sex (non-majors introductory biology): Biology 1003 (F'07-current)
- *SEAM seminar (for individuals from underrepresented groups throughout the Life Sciences): Biology 1905—Science, Sex and Society: How do we know what we know about sex? (F'09, F'10)
- SEAM seminar (for individuals from underrepresented groups in the College of Biological Sciences): Biology 1905—Preparation for graduate programs in science and professional school (F'07)
- Evolutionary & Ecological Perspectives (mixed-majors introductory biology): Biology 1001 (F'02, Sp'03, F'03, Sp'04, F'04, Sp'05, F'05, F'06)
- General Zoology: Biology 2012 (Sp'02-Sp'12)
- *Field Zoology: Biology 2812 (S'11)
- *Biology, Society, and the Environment: Biology 1105 (Sp'04-Sp'10)
- Animal Diversity: Biology 2005 (Sp'03-F'10)
- *Teaching in the Biology Labs: Biology 4201 (F'05- F'10)
- Preparing Future Faculty: GRAD 8101 (Sp'07)
- *Freshman seminar on Evolution of Sex: Biology 1905 (F'03, F'04)
- The Nature of Life (CBS Freshman Orientation): Biology 1805 (Summer 2003 through Summer 2014)

The Pennsylvania State University

- Introductory Biology (F'99, F'00, F'01)
- Aquatic Ecology (F'99, F'00, F'01)
- Ecotoxicology (Sp'00, Sp'01)
- *Graduate seminar on Hormonally Active Agents in the Environment (F'01)
- *Freshman seminar on “The Botany of Desire” (plants and people) (F'00)

ADVISING AND MENTORING

Undergraduate Student Activities

- Mai Vang, Fall 2016, Biased participation, as a function of group sex-ratio, in Biology Courses
- Olivia Trudeau, Fall 2016, Biased participation in Biology courses
- Clay Mazur, Fall 2015, Knowledge and perceptions of evolution in Galápagos
- Alyssa Axelrod, Fall 2015. Bean beetles, sex ratios, and sexual orientation
- Tiffany Galush, Spring 2015. The hydrozoan *Hydractinia* as a model organism for marine-biology course-based undergraduate research

- Nicholas Vang, Fall 2014, Utility of the traveling marine touch-tank in engaging K-12 students in the process of science
- Paul Leingang, Fall 2014, Impact of elevated CO₂ concentrations on *Aurelia aurita* scyphistoma.
- Erika Senyk, Fall 2013, A novel laboratory for investigating the impacts of climate change on coral growth
- Hawi Teizazu, Spring 2013, Using bean beetles to investigate evolution (in the high-school biology laboratory)
- Allison Raney and Samuel Westreich, Spring 2012, Development of a novel teaching laboratory investigating the evolution of multicellularity
- Michael Kempnich, Spring 2012, Student-generated vodcasts in General Zoology
- Alexander Schauer, Fall 2011, Evolution education
- Joseph Kleinschmidt, Spring 2011, Student-generated vodcasts in General Zoology
- Nick Beermann, Fall 2009, Vodcast assessment project
- Dana Olson, Fall 2009, Transgender issues in the college curriculum
- Cissy Ballen, Spring 2009, evaluating student use of electronic texts vs hard copies
- Liza Fife '06, Student perceptions of GMO's and risks
- Sara Fiskum '07, Designing an interactive HIV lab for Biology 1001
- Justyna Schuler '07, Developing a lesson plan for alternative energy (grades 8-12)
- Lydia Habte '08, College professors and their impressions of their students' backgrounds in evolution

Graduate Student Activities

Master's Student Advisees

- Marcus Gabrawy, 2012/2013, Master's of Biological Sciences (*C. elegans* as a model for investigating Red Queen predictions in the introductory-biology laboratory)
- Cathy Hoffman, 2012/2013, Master's of Biological Sciences (investigating different strategies for teaching in novel learning spaces)
- Michael Jarcho, 2014, Master's of Biological Sciences (impacts of a video tutorial on student performance in Biology 2004)

Doctoral Students Advised

- Seth Thompson, current, PhD candidate in Water Resources Science (CFANS)
- Jonathan Andicoechea, current, PhD candidate in Curriculum and Instruction (CEHD)

Post-doctoral fellows supervised

- Sadie Hebert, 2012-2014, HHMI post-doctoral fellow (bean beetles in the introductory-biology laboratory)
- Cissy Ballen, current

Other Mentoring Activities

- Faculty supervisor, Headwaters Ecology Club, current
- Faculty supervisor, Marine Biology Club, current

SERVICE AND PUBLIC OUTREACH

Service To The Discipline

Reviewer Experience

- American Biology Teacher
- Journal of Biological Education
- Cell Biology Education-Life Sciences Education
- PLoS Biology
- Evolution Education and Outreach
- Journal of College Science Teaching

Committee memberships

- Professional Development Committee Member, National Association of Biology Teachers, current.

Service To The University/College/Department

University-wide

- Faculty representative, eContent Committee, University of Minnesota, 2012-2013.
- Junior member, University Senate, Fall 2007-Fall 2008.

Collegiate

- Chair, Learning Technologies Committee, College of Biological Sciences, 2012.
- College of Biological Sciences TA Award Selection Committee, 2003-2009.
- [General] Biology Advisory Board, 2002-2005.
- College of Biological Sciences Alumni Society Board member, 2010-2012.

Department

- Director, Marine Biology Minor, 2013-2015.
- College of Biological Sciences Curriculum Task Force, 2005-2006.

Public And Other Service

- Science Museum of Minnesota, “Age of the Earth” activity for Darwin Day (invited)
- Science Museum of Minnesota, “Traveling Touch Tank” invited visits
- Collaborative work with students and faculty at Great River Montessori Charter School in St Paul, ongoing.
- Collaborative work with students and faculty at New Millenium Charter School in Minneapolis, ongoing.
- Collaborative work with students and faculty at Adams Spanish Immersion Public School in St Paul, ongoing.
- Board Member, Mundo Nuevo Bilingual Childcare Center, current.
- Como Woodland Advisory Board member, 2008-1010.
- District 10 (City of St. Paul) elected representative, 2007-2009.
- Friends of Como Park member.
- Dozens of “thinking like a scientist” presentations/discussions in area K-12 schools