

CURRICULUM VITAE

PERSONAL

Melinda A. Coogan, Ph.D.
Environmental Science Lecturer
Baylor University
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EDUCATION

Postdoctoral Fellowship, Baylor University, Waco, TX 2020.
Research focus: Local presence and effects of atmospheric particulate matter entering South Texas from the Gulf of Mexico.

Ph.D. in Environmental Science from University of North Texas, Department of Biological Sciences, Institute of Applied Science (IAS), Denton, TX; August 2007.
Dissertation title: Bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas wastewater treatment plant receiving stream and effects of triclosan on algal lipid synthesis.

M.S. in Biology from Western Illinois University, Macomb, IL; July, 2004.
Thesis title: Effects of simulated herbicide spray drift on *Silphium perfoliatum*.

B.S. in Biology from East Carolina University, Greenville, N.C.

A.A. in Biology from Stephens College, Columbia, MO.

RESEARCH INTERESTS

Aquatic and Air Pollution Toxicology, Freshwater Biology, and Wetland Dynamics

SCIENTIFIC ORGANIZATION MEMBERSHIP

Sigma Xi
Society of Environmental Toxicology and Chemistry (SETAC)
Society of Wetland Scientists (SWS)
Society of Toxicology (SOT)

PROFESSIONAL EXPERIENCE

Teaching/training:

Lecturer, Environmental Science. Baylor University, Waco, TX. (08/2018 – present)
Supervisor: Dr. George Cobb.

- Prepare and implement Exploring Environmental Issues lectures, activities, and evaluations.
- Prepare and implement Ecology for a Changing World lectures, activities, and evaluations.
- Prepare and implement Environmental Capstone lectures, activities, and evaluations.
 - Students are required to complete scientific paper reviews and present results in the form of a poster presentation during Baylor University's Spring Semester Scholars Week.
- Prepare and implement Field Techniques for Environmental Science lectures, field experiences, and evaluations.
 - Students complete weekly research papers based on field evaluations and data analyses.
- Prepare and implement the Baylor Honors College Interdisciplinary Core (BIC) Natural World II lectures and labs.
 - Developed a wetland research project to be completed annually beginning spring semester 2020.
- Initiated spring, summer, and fall semester Individual Research Problems course focusing on oxidative stress responses to metal oxide and pesticide exposures by using the zebrafish model.
 - Students involved in these research courses are required to attend weekly meetings, complete lab protocols, analyze results, submit a final paper, and present results in the form of a poster or oral presentation at Baylor University's Scholars Week and other applicable science conferences.

Professor, Biology. Buena Vista University, Storm Lake, IA (Tenure Track Position 08/2007-08/2018) Supervisor: Dean Benjamin Donath

- Prepared and implemented Introductory Biology lectures, labs, and evaluations.
 - Worked with predominantly freshman students on developing skills that led to a successful transition to a university science program.
 - Along with content, I introduced science majors to the Scientific Method through semester-long research projects that culminated in a science symposium where both peers and professors assessed projects.
- Prepared and implemented Freshwater Ecology lectures, labs, and evaluations.
 - Trained students on specific watershed field and lab research methods, how to collect and analyze data, and how to prepare a research paper based on actual field data.
- Prepared and implemented Ecology lectures, labs, and evaluations.
 - Trained students on specific terrestrial field and lab research methods, how to collect and analyze data, and how to prepare an ecological research paper based upon actual field data.
- Prepared and implemented Parasitology lectures, laboratory activities, and evaluations.
- Prepared and implemented Introduction to Human Physiology lectures, laboratory activities, and evaluations.
- Prepared and implemented Research Experience courses (sophomore, junior, and senior years) that trained individual students on development of experimental design, specific field and lab research methods, how to collect and analyze data, and how to prepare for an oral and/or poster presentation.

- Prepared and implemented Environmental Chemistry lectures, laboratory activities, and evaluations.
- Prepared and implemented global travel courses, such as Costa Rican Tropical Ecology, South African Biology, and Chilean Subantarctic Ecology and Water Chemistry lectures, field experiences, and evaluations.

Past Teaching Assignments (BVU):

- Prepared and implemented Geographic Information Systems lectures, projects, and evaluations.
- Prepared and implemented Environmental Science labs and evaluations.
- Prepared and implemented Secondary Science Education lectures and evaluations.

Science Outreach Coordinator, Buena Vista University, Storm Lake, IA (08/2007 - 08/2013) Supervisor: Dean Benjamin Donath

- Designed, coordinated, and implemented the first and Subsequent BVU Global Fellows travel experience to Chile beginning with students enrolled in fall, 2010 University Seminar.
- Obtained grant funding, managed awards, and completed reports for secondary science education programs serving area educators and students on BVU campus during academic year.
- Obtained grant funding, managed awards, and completed reports for summer science programs with BVU students to develop and implement watershed assessment projects for area high school students and scouting groups.
- Developed and implemented fall semester after-school science programs for Storm Lake Middle School with assistance of BVU education majors.
- Developed and implemented all day “Beaver Science Day” activities on BVU campus for invited high school students each fall semester and invited elementary or middle school students each spring semester.
- Developed and implemented Educational Talent Search science activity each spring for middle school students from Fort Dodge, IA.
- Mentored area middle school science fair participants on BVU campus and attended regional science fairs.
- Faculty Sponsor for Students Concerned about Tomorrow’s Environment (SCATE) - implemented campus and community programs with BVU students.

Teaching Assistant. University of North Texas, Denton, TX (08/2005 – 05/2007)
Supervisor: Dr. Thomas W. La Point

- Prepared and implemented Environmental Science lab lectures and exams.
- Supervised and performed in-lab and in-field investigations.

Upward Bound Graduate Student Mentor. University of North Texas, Denton, TX (06/2006) Supervisor: Dr. Thomas W. La Point

- Prepared and implemented an aquatic toxicological field and lab research project involving algal analyses.

- Trained students on specific field and lab methods, how to collect and analyze data, and how to prepare a research paper and presentation poster.

Texas Academy of Math and Science (TAMS) Graduate Student Mentor.

University of North Texas, Denton, TX. (06/2005 – 08/2005) Supervisor:

Dr. Thomas W. La Point

- Prepared and implemented an aquatic toxicological field and lab research project involving algal analyses.
- Trained TAMS student on specific field and lab methods, how to collect and analyze data, and how to prepare a research paper and presentation poster.

Biology (Genetics, Ecology, and Botany), Chemistry I and II, Human Anatomy and Physiology Educator. Milford High School, Milford, IL (08/2001 – 06/2004)

Principal: Mr. Steve Totheroh

- Prepared and implemented lecture and laboratory activities.
- Served as faculty sponsor for the Illinois Junior Academy of Science (IJAS) and the Biology, Physics, Anatomy, and Chemistry (BPAC) Science Club.

Earthwatch Graduate Student Mentor. Western Illinois University, Macomb, IL

(07/2002 – 08/2002) Supervisor: Dr. Sean E. Jenkins

- Lived and worked with students while implementing field investigations.
- Trained students on environmental field techniques and data collection.

Teaching Assistant. Western Illinois University, Macomb, IL

(08/2000 – 08/2001) Supervisor: Dr. Laura Barden-Gobbei

- Prepared and implemented Biology lab lectures and evaluations for majors and non-majors.
- Supervised and performed in-lab and in-field investigations.

Deer Check Coordinator. Western Illinois University, Macomb, IL

(09/2000 – 03/2001) Supervisor: Dr. Sean E. Jenkins

- Coordinated efforts with Illinois state employees regarding the hiring and training of deer check station workers.
- Trained station workers and completed necessary employment paperwork.

Chemistry II AP, Chemistry I Pre-AP, and Biology Pre-AP Educator. Lewisville High School, Lewisville, TX (08/1995 – 05/1999) Principal: Mr. Walt Davis

- Prepared and implemented lecture and laboratory activities.
- Acted as faculty sponsor for the Environmental Club.

Research:

Postdoctoral Research Scientist. Baylor University, Waco, TX. (06/2020 – 09/2020)
Supervisors: Drs. Rebecca Sheesley and Sasha Usenko

- Collected atmospheric samples and analyzed local impacts of particulate matter using TSP and OCEC equipment and methods.
- Developed weekly PM2.5 graphs for distribution to departmental and regional research scientists investigating site-specific aerosol effects near Houston, TX.
- Developed SAE/PM2.5 correlation graphs and downloaded HYSPLIT trajectory model diagrams to support Houston site investigations.
- Ordered necessary supplies.
- Attended weekly lab meetings.

Research Advisor for BVU Student, Tanner Cook, Buena Vista University, Storm Lake, IA (12/2016 – 04/2018)

- Obtained funding for BVU junior biology major, Tanner Cook, to go on expedition on Navarino Island, Chile to collect bryophyte samples.
- Samples were processed for GC/MS analysis on campus of Buena Vista University.
- Prepared manuscript in collaboration with Estudiante del Programa de Magister en Cs. Mención Manejo y Conservación de Recursos Naturales Sub-antárticos; Department of Biological Sciences, Sub-Antarctic Biocultural Conservation Program, University of North Texas, Denton, Texas, USA; Sub-antarctic Biocultural Conservation Program, Universidad de Magallanes, Puerto Williams, Chile; Buena Vista University, Storm Lake, Iowa, USA; Departamento de Genética Molecular y Microbiología, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile.
- Manuscript Title: The use of mosses as antipathogenic compounds of nests by birds of the Magellanic Subantarctic forest.

Contractor for Environment Canada. Buena Vista University, Storm Lake, IA (9/2009 – 10/2009) Supervisor: Anne Gosselin

- Reviewed current scientific literature on triclosan ecotoxicity.
- Wrote review for Government of Canada's Chemical Management Plan Assessment Report draft on triclosan bioaccumulation.

Contractor for CropLife America (CLA). University of North Texas, Denton, TX (08/2006 – 12/2006) Supervisor: Dr. Thomas W. La Point

- Reviewed scientific literature on pesticide toxicity in aquatic environments.
- Wrote a white paper summarizing findings and submitted a draft to CLA.

Environmental Laboratory Technician. TRAC Laboratories, Inc., Denton, TX (02/2006 – 05/2007) Supervisor: Mr. Thomas Venables

- Performed TOC, Sulfate, and Chlorophyll a assays.
- Analyzed data for Quality Control (QC) results.

- Wetland plant assessment consultant with Richland Chambers Constructed Treatment Wetland, TX.

Molecular Biology Research Assistant. University of Texas SW Medical Center, Dallas, TX (06/1998 – 08/1998) Supervisor: Dr. Jeffrey L. Elliott

- Performed laboratory experimentation for ALS research project.
- Attempted to identify internal splicing of a glutamate transporter gene by using PCR, gene cloning, and sequencing analyses.

SCHOLARSHIPS

- UNT Biological Sciences Department Chair Scholarship (05/2006)
- UNT Graduate Student Academic Scholarship (08/2005)
- UNT Graduate Student Academic Scholarship (08/2004)

AWARDS

- South Central Chapter, Society of Wetland Scientists First Place Platform Presentation (10/2006)
- South Central Society of Environmental Toxicology and Chemistry (SETAC) Conference First Place Poster (05/2006)

HONORS AND NOMINATIONS

- Elected BVU Faculty Senate Chair (2018)
- Elected Faculty Marshall, all-faculty election (2017 – 2018)
- Elected President of Iowa Academy of Science; three-year term of office as President Elect, President, and Past President (2015 – 2018)
- Awarded Research Sabbaticals (spring 2013 – metabolomics and GC/MS research with Dr. Barney Venables, University of North Texas; summer 2013 – freshwater eel research on Shannon River, Ireland with Dr. T. Kieran McCarthy, National University of Ireland, Galway)
- Iowa Campus Compact Faculty Award Nomination (2010)
- 24th Annual George Wythe Laureate for Teaching Excellence, Buena Vista University (2010)
- Women of Excellence Award Nomination, United Way, Sioux City, IA (2009)
- George Wythe Award Finalist, Buena Vista University (2009)
- Sigma Xi, Research Society (2007)
- Phi Kappa Phi, Academic Honor Society
- Chi Beta Phi, Scientific Honor Society

BOARDS AND COMMITTEES

- BVU VPAA/Provost Selection Committee (02/2018 – 04/2018)
- Stine Endowment Committee (04/2018 – 06/2018)
- George Wythe Laureate for Teaching Excellence Selection Committee (8/2017 – 06/2018)

- Conservation editor for the Journal of the Iowa Academy of Science (2015 – 06/2018)
- Elected as STEM Chair of the AAUW Storm Lake, IA Branch (2015 – 06/2018)
- Elected to the Buena Vista County (IA) Conservation Board (2013 – 06/2018)
- BVU IRB and IACUC Committee Chair and Member (2012 – 06/2018)
- Member of the Sub-Antarctic Biocultural Conservation Advisory Board of the Omora Ethnobotanical Park, Puerto Williams, Chile (2012 – 06/2018)
- BVU Faculty Senator (2010 – 2013): Faculty Welfare Committee Chair (2010 – 2011), Academic Affairs Committee Chair (2011 – 2013)
- Graduate Committee Member for Brooklyn Krings, Western Illinois University, Macomb, IL (2009 – 2011).
- Iowa Academy of Science Environmental Science and Health Section Chair and Societal Issues Committee Chair (2010 – 2018)
- Mississippi River Basin Initiative (MRBI) Expert Panel member for State of Iowa with Agren Inc. to Develop Raccoon River Basin Master Plan (2010 - 2011)
- Comprehensive State (IA) Wetland Action Plan Committee Member (2009)
- Storm Lake Storm Water Advisory Board Chair (2009 – 2017)
- BVU Sustainability Committee and Task Force (2009 - 2011)
- Little Storm Lake (IA) Discovery Center Planning Group (2008 – 06/2018)
- Raccoon River (IA) Watershed Association Board Member and Policy Committee Member (2007 – 2016)
- Bettendorf (IA) Family Museum of Arts and Science Board of Trustees (1999 – 2000)

FUNDING:

EPA Texas Institute for Environmental Assessment and Management (TEAM) Grant funded to the Institute of Applied Sciences (IAS) - University of North Texas (08/2004 – 08/2007)

GRANT PROPOSALS

Awarded:

- 06/2018 Dupont Pioneer, Stine, Monticello Foundation, AT&T, Symantec, Brun's STEM Endowment, REC Eastern Iowa grants, and individual donations for AAUW Tech Trek STEM programming on BVU campus (\$29,886).
- 04/2017 NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM). Co-PI for Reception of \$600,000 for STEM programming at Buena Vista University.
- 04/2017 Stine and Monticello Foundation grants for Tech Trek programming on BVU campus (\$8,000).
- 02/2017 Kaiser Grant for STEM programming, maintenance of and Additions to the BVU Kaiser Herbarium (\$8,000).
- 09/2016 AAUW Tech Trek STEM and Symantec grants for STEM programming on BVU campus (\$10,000).
- 04/2016 Monticello Foundation grants for Tech Trek programming on BVU campus (\$5,000).

- 09/2015 AAUW Tech Trek STEM, Verizon, Symantec grants for STEM programming on BVU campus (\$18,750).
- 01/2015 LI-COR Environmental Education Fund (LEEF) Grant, PI for reception of Ecophysiology Package (\$52,120).
- 01/2015 Roy J. Carver Charitable Trust Equipment Grant, PI for Reception of five pieces of scientific equipment to upgrade Environmental and Life Science program (\$173,054).
- 09/2015 EPA Greater Research Opportunities (GRO) Undergraduate Student Research Fellowship for Derek Simonsen (\$50,000).
- 09/2014 EPA Greater Research Opportunities (GRO) Undergraduate Student Research Fellowship for Carolyn McDermott (\$50,000).
- 10/2011 Carver Collaborative Equipment Grant, Co-PI for Reception of NMR and GC/MS (\$126,000).
- 11/2010 AAUW Campus Action Plan Grant entitled "Daughters Realizing Exceptional Abilities in Math and Science" (DREAMS) \$5,000.
- 10/2010 Co-PI on USDA NRCS MRBI Buena Vista County SWDC Collaborative Assessment Grant (\$200,000).
- 10/2010 BVU Special Projects Grant for Science Faculty training on use of Confocal Microscope (\$1,500).
- 11/2009 Kaiser Grant for maintenance of and additions to the BVU Kaiser Herbarium (\$1,000).
- 05/2009 BVU Faculty Development Mini Grant for SWS conference participation in Madison, WI. (\$1,000).
- 04/2009 Raccoon River Education and Research Grant for summer student research project (\$3,000).
- 04/2008 Raccoon River Education and Research Grant for summer student research project (\$1,500).
- 03/2008 BVU Faculty Development Mini Grant for SWS conference participation in Washington D.C. (\$1,000).
- 11/2007 Stine Grant for antimicrobial bioaccumulation equipment (\$1,500).
- 11/2005 SETAC National Conference Travel Grant (\$500).
- 11/2004 University of North Texas Department of Biological Sciences Travel Grant (\$500).

Submitted but Not Awarded:

- 09/2008 NSF REU Grant for Summer, 2009.
- 09/2007 NSF REU Grant for Summer, 2008.
- 04/2006 Sigma Xi Grants-in-Aid of Research.
- 06/2005 SETAC/Procter & Gamble Fellowship for Doctoral Research in Environmental Science.
- 11/2004 U.S. Environmental Protection Agency STAR Grant.

PUBLICATION RECORD

Published:

- 2012 Coogan, M.A. *Helisoma trivolvus* (Say) as an Assessment Organism in Algal Community Composition Studies. Book Chapter for *Snails: Biology, Ecology, and Conservation*, NOVA Publications.

- 2008 Coogan Melinda Ann. Bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas wastewater treatment plant receiving stream and effects of triclosan on algal lipid synthesis. University of North Texas Electronic Theses and Dissertation (OCLC: 191865727).
- 2008 Coogan, M.A. and T.W. La Point. Snail bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas, USA, stream affected by wastewater treatment plant runoff. *Environ Toxicol Chem*, Vol. 27, No. 8, pp. 1788 - 1793.
- 2007 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. *Chemosphere* 67, 1911-1918. (Elsevier Cite Alert: 122 citations with 2 citations 2015 publications).

In Review:

- 2015 Keane, M. and M. Coogan. Whiterock Conservancy (IA) baseline hillside assessments. *American Journal of Undergraduate Research*, 0:000-000.
- 2009 Coogan, M.A., M.J. Murphy, S.E. Jenkins, and M.A. Romano. Effects of reduced rates of glyphosate and 2,4-D on *Silphium perfoliatum* L. *Ecological Restoration*, 0:000-000.

In Preparation:

- 2018 Arellano, F., R. Jara, R. Mackenzie, T. Cook, R. Crego, M. Coogan, J. Jiménez, and P. Arce. The use of mosses as antipathogenic compounds of nests by Birds of Magellan Subantarctic Forest.

PRESENTATIONS

Platform:

- 04/2015 Coogan, Melinda and BVU Students. Macroinvertebrate bacterial resistance to triclosan at the Outlet Creek (IA) WWTP outfall and potential for downstream resistance migration. Iowa Academy of Science, University of Iowa, Iowa City, IA.
- 04/2015 Coogan, Melinda and BVU Students. Macroinvertebrate bacterial resistance to triclosan at the Outlet Creek (IA) WWTP outfall and potential for downstream resistance migration. Raccoon River Watershed Association Conference, Drake University, Des Moines, IA.
- 04/2012 Coogan, Melinda and Students. “Life on the Raccoon River” Summer, 2011 MRBI Project, Des Moines, IA.

- 04/2011 Coogan, Melinda. Engaged STEM Learning: From Promising to Pervasive Practices. Association of American Colleges and Universities, Miami, FL.
- 03/2010 Coogan, Melinda and Students. "Life on the Raccoon River" Summer, 2009 Wetland Assessment Project, Des Moines, IA.
- 04/2009 Coogan, Melinda. Outlet Creek (IA) Project. Wetland Symposium: Reinvesting in Iowa's Natural Capital, Des Moines, IA.
- 04/2009 Coogan, Melinda. Water quality in the Storm Lake (IA) area. Storm Lake Cancer Task Force, Storm Lake, IA.
- 10/2008 Coogan, Melinda A. Building a template for remediation of Outlet Creek, Iowa with constructed wetlands. Raccoon River Watershed Association Conference, Des Moines, IA.
- 12/2007 Coogan, Melinda and Todd Wical. Investigations of *Escherichia coli*, nitrate, and phosphate levels within Outlet Creek, Iowa. Raccoon River Watershed Association Conference, Des Moines, IA.
- 06/2007 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. National Society of Wetland Scientists Conference, Sacramento, CA.
- 04/2007 Coogan, M.A. Bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas wastewater treatment plant receiving stream and effects of triclosan on algal lipid synthesis. Seminar Presentation and Public Defense for PhD in Environmental Sciences, UNT, Denton, TX.
- 11/2006 Coogan, M.A., C.A. Waggoner, R.E. Edziyie, W.T. Waller, T.W. La Point, B.J. Venables, D.A. Kunz. Antimicrobials in a wastewater treatment plant receiving stream: algal bioaccumulation and microbial resistance. SETAC Conference, Montreal, Canada.
- 10/2006 Coogan, M.A., R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. South Central Chapter, Society of Wetland Scientists, Vicksburg, Mississippi.
- 05/2006 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. Illinois Natural History Survey, Champaign, IL.

04/2006 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. Environmental Science Seminar, University of North Texas, Denton, TX.

Poster:

- 03/2020 Pradhan, S.H., M. A. Coogan, and C. M. Sayes. Embryonic and Larval Zebrafish (*Danio rerio*) Developmental Toxicity following Zinc Exposure. Society of Toxicology 59th Annual Meeting, Anaheim, CA.
- 04/2018 Cook, T. and M. Coogan. Antimicrobial metabolite analysis of Sub-Antarctic mosses found in bird nests. Iowa Academy of Science, Buena Vista University, Storm Lake, IA.
- 04/2018 Campbell, K. and M. Coogan. Measuring stress levels of juvenile mice using social defeat assessments. Iowa Academy of Science, Buena Vista University, Storm Lake, IA.
- 04/2018 Quail, C. and M. Coogan. Apoptosis and bioaccumulation of atrazine in *Danio rerio* embryos. Iowa Academy of Science, Buena Vista University, Storm Lake, IA.
- 04/2018 Quinlan, G. and M. Coogan. Determination of lethal concentration (LC₅₀) values of glyphosate and potential toxicity effects on zebrafish (*Danio rerio*) embryos. Iowa Academy of Science, Buena Vista University, Storm Lake, IA.
- 04/2017 Weaver, C. and M. Coogan. Physiological effects of Perfluorooctane Sulfonate (PFOS) on *Danio rerio* (Zebrafish) Embryos. Iowa Academy of Science, University of Northern Iowa, Cedar Falls, IA.
- 04/2017 Simonsen, D. and M. Coogan. Evidence of DDT resuspension through dredging of a Midwest agricultural lake system. Iowa Academy of Science, University of Northern Iowa, Cedar Falls, IA.
- 04/2017 Simonsen, D., O. Tuel, and M. Coogan. Potential metabolic degradation of triclosan in utero and residual effects on Langerhan cells. Iowa Academy of Science, University of Northern Iowa, Cedar Falls, IA.
- 04/2017 Clinesmith, M. and M. Coogan. The potential effects of glyphosates on soil CO₂ levels. Iowa Academy of Science, University of Northern Iowa, Cedar Falls, IA.

- 04/2016 Simonsen, D. and M. Coogan. Evidence of DDT resuspension through dredging of a Midwest agricultural lake system. Society of Environmental Toxicology and Chemistry International Conference, Orlando, FL.
- 04/2014 Rogers, A., C. Snyder, and M. Coogan. Triclosan effects on algae in Storm Lake, IA, WWTP receiving stream. Iowa Academy of Science, Iowa Central Community College, Fort Dodge, IA.
- 04/2013 Heim, J., J. Killpack, and M. Coogan. Impact of Bt corn leaf detritus on aquatic macroinvertebrates. Iowa Academy of Science, Simpson College, Indianola, IA.
- 09/2012 Heim, J., J. Killpack, and M. Coogan. Impact of Bt corn leaf detritus on aquatic macroinvertebrates. North Central Chapter Conference, Society of Wetland Scientists, Indiana Dunes, IN.
- 06/2012 Coogan, M.A. and K. Perez. Use of *Cladophora* spp. to purify freshwater systems and produce biodiesel on a laboratory scale. The 2nd International Conference on Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
- 06/2011 McIntyre, E. and M. Coogan. Effects of phosphate levels on Odonata diversity in the North Raccoon River (IA) watershed. International Society of Wetland Scientist Conference, Prague, Czech Republic.
- 11/2008 Coogan, M.A and T.W. La Point. Snail bioaccumulation of triclocarban, triclosan, and methyltriclosan in a North Texas, USA, stream affected by wastewater treatment plant runoff. National SETAC Conference, Tampa, FL.
- 05/2006 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. South Central SETAC Conference, University of North Texas, Denton, TX.
- 11/2005 Coogan, M.A, R.E. Edziyie, T.W. La Point, B.J. Venables. Algal bioaccumulation of antimicrobials in a North Texas wastewater treatment plant (WWTP) receiving stream. National SETAC Conference, Baltimore, MD.
- 05/2005 Coogan, M.A., S.E. Jenkins, M.J. Murphy. Effects of simulated herbicide spray drift on *Silphium perfoliatum*. South Central SETAC Conference, Balcone Springs Conference Center, Marble Falls, TX.
- 11/2004 Coogan, M.A., S.E. Jenkins, M.J. Murphy. Effects of simulated herbicide spray drift on *Silphium perfoliatum*. National SETAC Conference, Portland, OR.

PROFESSIONAL SERVICE

- 09/2013 – 09/2017:
School of Science Academic Affairs Representative.
- 09/2012 – 09/2017:
BVU IRB/IACUC Committee Chair and Committee Member.
- 04/2010 – 2018:
Iowa Academy of Science: President Elect, President, and Past President, Societal Issues Committee Chair, Environmental and Health Sciences Section Chair.
- 04/2010 – 05/2013:
Buena Vista University Faculty Senator: Faculty Welfare Chairperson, Academic Affairs Chairperson.
- 09/2009 – 04/2016:
Storm Lake, Iowa Municipal Storm Water Advisory Committee.
- 05/2009 – 05/2010:
Buena Vista University Scholars' Day Committee Member.
- 09/2008 – 06/2018:
Violin Instructor, Storm Lake Suzuki Violin Academy.
- 09/2007 – 06/2018:
First Violinist, Cherokee (Iowa) Community Symphony.
- 09/2008 – 06/2018:
Violinist, St. Mary's Catholic Church, Storm Lake, IA.
- 09/2008 – 04/2009:
Confirmation Instructor, St. Mary's Catholic Church, Storm Lake, Iowa.
- 08/2006 – 05/2007:
University of North Texas Student Chapter SETAC President.
- 04/2006 – 05/2007:
City of Denton, Texas Industrial Ecology Group, Algal Lipid Production and Processing Review Panel, member.
- 02/2005 – 05/2005:
Graduate Student Representative, Hiring Committee for Wetland Ecologist, University of North Texas, IAS.
- 08/2004 – 08/2006:
University of North Texas Student Chapter SETAC Treasurer.