

Amanda Roe, Ph.D.  
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## EDUCATION

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*University of Nebraska-Lincoln* *Lincoln, Nebraska*  
**Ph.D. in Natural Resource Sciences: Applied Ecology** **2009-2014**  
Dissertation Title: "Development modeling of *Lucilia sericata* and *Phormia regina*  
(Diptera: Calliphoridae)"

**M.S. in Entomology** **2007-2009**  
Thesis Title: "*Calliphora vicina* and *Lucilia sericata* and their effect on the morphology and presumptive chemistry of medium impact and pooled bloodstain patterns"

*University of Wyoming* *Laramie, WY*  
**B.S. in Agroecology** **2005-2006**  
Minor: Insect Science

*Casper Community College* *Casper, WY*  
**A.S. in General Studies** **2003-2005**

## PROFESSIONAL EXPERIENCE

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### Teaching and Leadership

*College of Saint Mary* *Omaha, Nebraska*

#### Leadership

**Assistant Dean of Sciences and Professional Studies** **June 2024-Present**  
Work collaboratively with the Program Directors and faculty of Biology, Chemistry, Math, Business, Education, and Legal Studies, and serves as the liaison between the Vice President for Academic and Student Affairs and the program directors, faculty, and staff in the Division of Academic Affairs

**Faculty Assembly Council** (3-year term) **May 2022-Present**  
*Past Chair* (May 2024 – Present) – Support the current Chair and serve as the liaison to the University Board  
*Chair* (May 2023 – May 2024) – Set the agenda and lead all faculty assembly meetings  
*Vice Chair* (May 2022 – May 2023) – Sat on multiple committees as the Faculty Assembly Council liaison  
Act and/or make recommendations in areas relating to academic and faculty matters; promote faculty development, professional practices, and high-quality faculty performance; and to promote improvement of higher education

#### Teaching

**Associate Professor of Biology** **February 2020-Present**  
Teaching Assignments: Human Anatomy and Physiology I, Human Anatomy and Physiology I Laboratory, Principles of Anatomy and Physiology, Principles of Anatomy and Physiology Laboratory, Introduction to Forensic Science, Advanced Forensic Science, Entomology

**Assistant Professor of Biology** **August 2014-February 2020**  
Teaching Assignments: Human Anatomy and Physiology I, Human Anatomy and Physiology I Laboratory, Principles of Anatomy and Physiology, Principles of Anatomy and Physiology Laboratory, Introduction to Forensic Science, Advanced Forensic Science, Scientific Literacy, Scientific Methods, Entomology

**Director of the Forensic Science Minor** **August 2015-Present**  
Plan and teach forensic science classes, invite guest speakers, coordinate field trips, advise forensic science students, and coordinate forensic science research

**Science Enrichment Workshop Series Coordinator****August 2016-Present**

Plan and organize 6 monthly workshops (per year) for ~48 K-6 Nebraska-area science teachers. Current workshops are Life/Physical Sciences and Physics/Engineering and include science lessons, classroom-appropriate activities, and educational pedagogy

**Walk Tall Honors Society Faculty Member****March 2015-May 2021**

A three-member team of faculty members plan, attend, and evaluate six honors events per semester for 60 students. The events include service trips, fine arts engagements, public presentations, and mental/physical/spiritual health seminars

**Elementary School Science Outreach Coordinator****August 2015-August 2018**

Organize CSM undergraduate students as they conduct science activities in K-6 grade classrooms in Omaha-area schools

Research**College of Saint Mary Campus Pollinator Study****January 2022-Present**

Collection and identification of the pollinator biodiversity on an urban college campus. The ultimate goals are to generate a biodiversity baseline and use the data to remove campus turf grass and replace with native/pollinator friendly plants.

**Devils Tower Insect Survey****June 2020-Present**

Sabbatical research conducting a comprehensive insect survey around Devils Tower (Hulett, Wyoming) investigating changes in biodiversity from the last survey conducted in 1982-1985.

**Glacier Creek Preserve Insect Survey****March 2019-Present**

Collaboration with University of Nebraska-Omaha researchers to conduct a baseline survey of the insects found at Glacier Creek Preserve (Omaha, Nebraska). CSM students are helping with the collection and identification.

**Tick Attractiveness to Decomposition****January 2018-Present**

Research into how ticks may come to decomposing remains as a method of finding a warm-blooded scavenger host. Preliminary research conducted by 8 CSM students.

**Perceptions of County Attorneys in their role as Coroner in Nebraska****January 2018-May 2020**

Student-led research that involves sending surveys to 93 county attorneys, organizing the responses, and presenting the findings

Faculty Committees and Task ForcesFaculty Committees**Promotion, Rank, and Extended Contract (PRE) Committee (2-year term)****August 2021-August 2023**

Review faculty promotion portfolios and recommend promotions of rank, extended contract, and post-extended contract

**Budget Committee****January 2021-May 2021**

Review university-wide budget requests, categorize based on need, and make recommendations to administration about priorities

**Assessment Committee (3-year term, Committee Chair, 2 years)****August 2016-May 2020**

Review program assessments, recommend feedback, and update assessment requirements

**Marketing****August 2015-May 2016**

Work with the College of Saint Mary marketing team on promotion ideas and implementation

**Common Theme****August 2014-May 2015**

Recommend annual campus-wide themes and determined activities and readings to support the theme

Task Forces**Strategic Planning Task Force****August 2021-December 2023**

Develop a university-wide vision that includes foci and goals for the next 5 years

**COVID Response Committee****August 2021-August 2023**

Determine campus-wide COVID-19 safety measures and implementations while working with administration, faculty, staff, and students

**Program Review Task Force****January 2020-December 2020**

Develop a process for programs to be reviewed on a regular basis per HLC recommendations

**Shared Governance Task Force****August 2016-May 2019**

Promote shared governance on the College of Saint Mary campus between faculty, administration, staff, and the board through In-Service presentations, yearly assessments, handbook updates, and dialogue facilitation

**Student Committees**

Ph.D. Committee Member – **John Obafunwa, University of Nebraska-Lincoln**

**August 2021-Present**

M.S. Committee Member – **Fabrice Gbenons, University of Nebraska-Lincoln**

**August 2023-Present**

Ph.D. Committee Member – **Braymond Adams, Iowa State University**

**July 2019-August 2023**

Ed.D. Dissertation Committee Member – **Terra Uhing, College of Saint Mary**

**January 2018-February 2018****Consulting****Yellowstone Citizen Science Ant Identification Project****January 2021-December 2021**

Consulting work through the National Park Service involving the identification of ant specimens from Yellowstone National Park

**Death and Decom Sciences, LLC****November 2017-Present**

Co-owner (with Dr. Leon Higley) of a consulting and education business focused on taphonomy and entomology sciences and their relationship to decomposition

**Menstrual Equity****Menstruation Celebration at Gretna Public Library****January 2025**

Invited presentation on menstruation basics, access, stigma, and sustainable management options

**Nebraska Menstrual Equity Summit****December 2024**

Summit hosted at the College of Saint Mary that brought together OB/GYN's, high school and college students, state legislative aids, school board members, and others to discuss periods; presented on menstruation stigma, hosted an access panel discussion, and collected feedback on a state implementation tool-kit

**March Menstrual Product Drive****March 2024**

Campus-wide pad and tampon drive; donated over 6,780 pads and tampons to Access Period

**Legislative Bill 1050****February 2024**

Bill sponsored by Senator Danielle Conrad; testified during the public hearing in front of the State Education Committee

**Nebraska Menstrual Equity Summit****December 2023**

Summit hosted at the College of Saint Mary that brought together OB/GYN's, high school and college students, state legislative aids, school board members, and others to discuss periods; presented our menstruation work at CSM, hosted a panel discussion, and went over a legislative bill draft

**March Menstrual Product Drive****March 2023**

Campus-wide pad and tampon drive co-sponsored with the Physician's Assistants Student Society; donated over 9,000 products to Access Period

**Nebraska Menstrual Equity Coalition****November 2022**

A coalition of menstrual equity-focused people and groups in Nebraska formed by the PERIOD@CollegeofSaintMary and Access Period; the group focuses on menstruation legislation in the state

**PERIOD Politics****September 2022**

Campus-wide presentation and discussion co-sponsored with the Political Science Program on the relationship between politics and menstruation and how to get involved in the system to advocate for menstruators; ~30 students wrote postcards to their state senators asking for more work in bringing free products to education centers in Nebraska

**Go with the Flow...Sustainably****April 2022**

Campus-wide presentation and discussion co-sponsored with the Theology Program on sustainable menstruation products (cups, cloth pads, and underwear); ~50 students and staff learned about sustainable options and were able to see/touch different brands, styles, and sizes of sustainable products

**March Menstrual Product Drive****March 2022**

Campus-wide pad and tampon drive co-sponsored with DUO (Do Unto Others) student group; donated over 11,000 products to Heartland Family Service and Pine Ridge Reservation

**Project PERIOD****August 2021**

Initiative to put pads and tampons in all 45 public bathrooms on campus, regardless of gender; baskets are filled biweekly and as of February 2024, the project has stocked over 25,000 pads and tampons on campus

**PERIOD@CollegeofSaintMary****June 2019**

First (in the state of Nebraska) PERIOD chapter started by myself (President) and Dr. Molly Mahoney (Vice-President) so we could be part of the larger conversation around menstruation advocacy, education, and service

**Go with the Flow Presentation and Product Drive****March 2018**

Campus-wide Honors Society event that included a pad and tampon drive and a co-curricular presentation about the psychology, biology, and economics of menstruation; donated 25,906 products to Families Working Together on the Pine Ridge Reservation and Youth Emergency Services in Omaha, NE

**PUBLICATIONS and PRESENTATIONS**

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Publications

1. Obafunwa J, **Roe A**, and Higley LG (**2024**) A review of postmortem interval estimation using forensic entomology. *Medicine, Science, and the Law*; DOI 10.1177/00258024241275893.
2. **Roe A**, Wells JD, Higley LG (**2024**) Development Modeling of *Phormia regina* (Diptera: Calliphoridae). *Insects* 15, 550; <https://doi.org/10.3390/insects15070550>.
3. **Roe A**, Barnes RJ, Higley LG, Haskell NH (**2023**) Changing blowfly (Diptera: Calliphoridae) populations in Orlando, Florida, United States. *Florida Entomologist* 106: 189-191.
4. **Roe AL**, Higley LG (**2023**) Stage transitions in *Lucilia sericata* and *Phormia regina* (Diptera: Calliphoridae) and implications for forensic science. *Insects* 14 (315); <https://doi.org/10.3390/insects14040315>
5. Clem CS, Wingert BD, Kautz AR, **Roe AL**, Mulford T, Bettman D, Conrow RT, Dahlem GA, Fernandes Flores H, Foote L, Gisondi S, Hogue JN, Matsunaga J, Mendez-Soto M, Mochizuki K, Munguia Ortega K, Rawson W, Xuan J, Brown B (**2022**) Checklist of true flies (Diptera) from San Luis Obispo County, California, USA: an outcome of the Fly School II taxonomic workshop. *Pan-Pacific Entomo* 98(4): 270-299.
6. LaMotte LR, **Roe A**, Wells JD, Higley LG (**2017**) A statistical method to construct confidence sets on carrion insect age from development stage. *J Agric Bio Environ Stat* 22 (2): 161-171.
7. Morrow JJ, Myhra A, Piombino-Mascali D, Lippi D, **Roe A**, Higley L, Reinhard KJ (**2016**) Archaeoentomological and archaeoacarological investigations of embalming jar contents from the San Lorenzo Basilica in Florence, Italy. *J Archaeo Sci: Reports* 10: 166-171.
8. **Roe A**, Higley LG (**2015**) Development modeling of *Lucilia sericata* (Diptera: Calliphoridae). *PeerJ* 3:e803; DOI 10.7717/peerj.803
9. **Fujikawa A**, Barksdale L, Higley LG, Carter DO (**2011**) Changes in the morphology and presumptive chemistry of impact and pooled bloodstain patterns by *Lucilia sericata* (Meigen) (Diptera: Calliphoridae). *J Forensic Sci* 56: 1315-1318.

10. Striman B, **Fujikawa A**, Barksdale L, Carter DO (**2011**) Alteration of expired bloodstain patterns by *Calliphora vicina* and *Lucilia sericata* (Diptera: Calliphoridae) through ingestion and deposition of artifacts. J Forensic Sci 56: S123-S127.
11. **Fujikawa A**, Barksdale L, Carter DO (**2009**) *Calliphora vicina* (Diptera: Calliphoridae) and their ability to alter the morphology and presumptive chemistry of bloodstain patterns. J Forensic Identification 59 (5): 502-512.

## Conferences, Presentations, and Invitations

### Conferences Attended

- Entomological Society of America  
Phoenix, AZ  
**November 2024**

### Presentations

- Entomological Society of America, Entomological Society of Canada, Entomological Society of British Columbia Joint Meeting  
"Devils Tower: Year two of a comparative insect biodiversity survey" (Presenting Co-author) (Poster)  
Vancouver, BC, Canada  
**November 2022**
- US Conference on Poverty and Basic Needs  
"PERIOD@College of Saint Mary: Increasing College Student Access in Nebraska" (Presenting Co-author)  
Chicago, IL  
**October 2024**
- Entomological Society of America  
"Devils Tower: A comparative insect biodiversity survey" (Presenting Co-author)  
  
"Omaha's Own Field of Dreams: The Insects of Glacier Creek - A Novel Survey of Reclaimed Prairie" (Co-author) (Virtual)  
Denver, CO  
**November 2021**
- Reiman Gardens Day of Insects –  
"Omaha's Own Field of Dreams: The Insects of Glacier Creek - A Novel Survey of Reclaimed Prairie" (Presenting Co-author)  
Ames, IA  
**March 2021**
- Entomological Society of America –  
"Glacier Creek Preserve Insect Survey: An insect biodiversity study in a reclaimed prairie ecosystem" (Co-author) (Poster)  
  
"Chemical Attraction of Ticks (Parasitiformis: Ixodidae) to Decomposing Animal Remains"  
St. Louis, MO  
**November 2019**
- Nebraska Academy of Sciences –  
"College of Saint Mary Elementary Science Outreach Program: A focus on elementary science educators" (Presenting Co-author)  
Lincoln, NE  
**April 2019**

- American Academy of Forensic Sciences  
*"The American Board of Forensic Taphonomy (ABFTaph): A Multidisciplinary Approach to Decomposition"*  
(Poster)  
Seattle, WA  
**February 2018**
- American Academy of Forensic Sciences  
*"Changing Forensic Science Practice to Meet the Demands of Law and Science"* (Presenting Co-author)  
New Orleans, LA  
**February 2017**
- American Academy of Forensic Sciences  
*"The Total Team: The Investigators, Forensic Scientists, and the Attorneys in a Capital Case From Kansas"*  
(Presenting Co-author)  
New Orleans, LA  
**February 2017**
- Nebraska Academy of Sciences –  
*"College of Saint Mary Elementary Science Outreach Program: Building on the past to better the future"*  
(Co-author) (Poster)  
Lincoln, NE  
**April 2017**
- Nebraska Academy of Sciences –  
*"College of Saint Mary Elementary Science Outreach Program: Undergraduate Student Management and Delivery of an Elementary Science Outreach Program"* (Co-author)  
Lincoln, NE  
**April 2016**
- Nebraska Academy of Sciences –  
*"College of Saint Mary Elementary Science Outreach Program: Undergraduate Student Management and Delivery of an Elementary Science Outreach Program"* (Co-author) (Poster)  
Lincoln, NE  
**April 2015**
- Entomological Society of America –  
*"60 years and 60,000 maggots: the current state of blow fly development"*  
Portland, OR  
**November 2014**
- European Congress of Entomology –  
*"You may not even need to be a forensic bug, but temperature always matters: blow fly development"*  
York, England  
**August 2014**
- National Institute of Justice (at the American Academy of Forensic Sciences) –  
*"Applications of curvilinear development modeling of the blow fly *Lucilia sericata* (Meigen)"*  
Washington D.C.  
**February 2013**
- Entomological Society of America –  
*"Curvilinear development modeling of the blow fly *Lucilia sericata* (Meigen) over a series of temperatures"*  
  
*"Survey of Necrophagous Insects in the Nebraska Sandhills"* (Presenting Co-author) (Poster)  
  
*"Mobile maggots: *Lucilia sericata* (Diptera: Calliphoridae) larval growth and mortality rates associated with movement between food substrates"* (Co-author) (Poster)  
  
*"Anoxia tolerance of *Lucilia sericata* (Diptera: Calliphoridae) maggots"* (Co-author) (Poster)  
Knoxville, TN  
**November 2012**

- American Tarantula Society  
"Of flies and men: the role of insects in decomposition"  
Tucson, AZ  
**July 2012**
- National Institute of Justice –  
"Improving postmortem interval (PMI) estimations through curvilinear development modeling of the blow fly *Lucilia sericata* (Meigen)"  
Washington D.C.  
**June 2012**
- Entomological Society of America –  
"Maggot Respiration Rates for Forensically Important 3rd Stage *Lucilia sericata* and *Cochliomyia macellaria*"  
Reno, NV  
**November 2011**
- International Association for Identification –  
"A Roach in the Room: How feeding and defecation behaviors of the German cockroach (*Blattella germanica*) can alter pooled bloodstain patterns"  
Milwaukee, WI  
**August 2011**
- American Academy of Forensic Sciences –  
"*Lucilia sericata* and their effect on the morphology and presumptive chemistry of medium impact and pooled bloodstain patterns"  
  
"Interactions between the German cockroach (*Blattella germanica*) and pooled bloodstain patterns" (Co-author) (Poster)  
Seattle, WA  
**February 2010**
- National Science Foundation STEM Grades K-12 Annual Conference –  
"Project Fulcrum: Enriching K-12 classrooms through scientific research" (Presenting Co-author) (Poster)  
Washington D.C.  
**March 2010**
- NE International Association for Identification –  
"*Calliphora vicina* (Diptera: Calliphoridae) and their ability to alter the morphology and presumptive chemistry of bloodstain patterns"  
Ashland, NE  
**April 2009**
- American Academy of Forensic Sciences –  
"*The activity of Calliphora vicina* (Diptera: Calliphoridae) can alter the morphology and presumptive chemistry of high impact bloodstains"  
  
"Consumption of fly artifacts after deposition and translocation of bloodstains by *Calliphora vicina* (Diptera: Calliphoridae)" (Co-author) (Poster)  
Denver, CO  
**February 2009**
- International Association for Identification –  
"*Calliphora vicina* (Diptera: Calliphoridae) and their ability to alter the morphology and presumptive chemistry of bloodstain patterns"  
Louisville, KY  
**August 2008**
- Entomological Society of America –  
"*Calliphora vicina* (Diptera: Calliphoridae) and their ability to alter the morphology of bloodstain patterns"  
Reno, NV  
**November 2008**

#### Invited Presentations/Guest Lectures

- Hitchcock Insect Club –  
"Decomposer Insect Communities in the Nebraska Sandhills"  
**August 2024**
- Reiman Gardens Day of Insects –  
"Of Maggots and Men: Insects in Animal Decomposition"  
Ames, IA  
**April 2024**
- College of Saint Mary Lunch and Learn Session  
"An insect biodiversity study at Devils Tower" (virtual)  
**October 2022**
- College of Saint Mary Occupational Therapy Doctorate Program  
"Women in Politics and Healthcare" (co-presenter)  
**September 2022**
- University of Nebraska-Omaha (UNO) Entomology Course  
"Forensic Entomology"  
Omaha, NE  
**November 2021**
- College of Saint Mary New Student Orientation  
"How to succeed in college: Tips from real professors" (co-presenter)  
**August 2021**
- Iowa State University Seminar Series  
"Forensic Entomology" (virtual)  
**February 2021**
- College of Saint Mary Forensic Science Course  
"Forensic Entomology"  
Omaha, NE  
**October 2014**
- Southern Institute of Forensic Science –  
"Bugs, Blood, and Bad Guys: Insects and their effect on Bloodstain Patterns"  
Kansas City, MO  
**May 2010**
- Doane College –  
"Bugs, Blood, and Bad Guys: Using forensic science to assist in crime scene investigations"  
Crete, NE  
**April 2010**

## **GRANTS AND AWARDS**

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### Grants

- |  |                  |
|--|------------------|
| <i>NASA Nebraska Space Grant Higher Ed Mini-Grant</i>  | <b>2024-2025</b> |
| <ul style="list-style-type: none"> <li>• Elementary Educator Science Enrichment Workshop</li> <li>• Competitive grant (\$3500) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement</li> </ul> |                  |
| <i>NASA Nebraska Space Grant Higher Ed Mini-Grant</i>  | <b>2023-2024</b> |
| <ul style="list-style-type: none"> <li>• Elementary Educator Science Enrichment Workshop</li> <li>• Competitive grant (\$3500) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement</li> </ul> |                  |
| <i>NASA Nebraska Space Grant Higher Ed Mini-Grant</i>  | <b>2022-2023</b> |



- Elementary Educator Science Enrichment Workshop
- Competitive grant (\$3500) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*Barbara Hayes Sabbatical Grant (Year 2)* **2022**

- Grant (\$5000) that continued to fund travel and supplies for an extensive, multi-year research project collecting, identifying, and preserving insects at Devils Tower National Monument, Wyoming

*Barbara Hayes Research Grant* **2022**

- Grant (\$5000) that funds an insect pollinator study on the College of Saint Mary Campus

*NASA Nebraska Space Grant Higher Ed Mini-Grant* **2021-2022**

- Elementary Educator Science Enrichment Workshop
- Competitive grant (\$3500) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*Barbara Hayes Sabbatical Grant* **2020-2021**

- Grant (\$5000) that funds an extensive, year-long research grant to collect, identify, and preserve insects at Devils Tower National Monument, Wyoming

*NASA Nebraska Space Grant Higher Ed Mini-Grant* **2020-2021**

- Elementary Educator Science Enrichment Workshop
- Competitive grant (\$3500) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*NASA Nebraska Space Grant Higher Ed Mini-Grant* **2019-2020**

- Elementary Educator Science Enrichment Workshop
- Competitive grant (\$4000) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*Claire M. Hubbard Foundation* **2019**

- Grant (\$61,300) that allowed the continuation of the Science Enrichment Workshop Series for 3 years
- The series provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*NASA Nebraska Space Grant Higher Ed Mini-Grant* **2018-2019**

- Elementary Educator Science Enrichment Workshop
- Competitive grant (\$4000) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*NASA Nebraska Space Grant* **2017-2018**

- CSM Elementary Science Teacher Workshop
- Competitive grant (\$4000) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*NASA Nebraska Space Grant* **2017-2018**

- CSM Elementary Science Outreach Project
- Competitive grant (\$4000) that allows continuation of elementary school outreach activities

*NASA Nebraska Space Grant* **2016-2017**

- CSM Elementary Science Teacher Workshop
- Competitive grant (\$3000) that funds a six-week K-5 teacher workshop that provides science education and pedagogy to increase teacher confidence and elementary student science engagement

*NASA Nebraska Space Grant* **2016-2017**

- CSM Elementary Science Outreach Project
- Competitive grant (\$3000) that allows continuation of elementary school outreach activities

- Claire M. Hubbard Foundation* **2015**
- Co-PI
  - Grant (\$27,000) that allowed the planning and launching of a 6 course science-focused workshop for K-5 elementary school teachers
- NASA Nebraska Space Grant* **2015-2016**
- CSM Elementary Science Outreach Project
  - Competitive grant (\$2000) that allows continuation of elementary school outreach activities
- University of Nebraska-Lincoln Graduate Studies Fellowship* **2012**
- Competitive fellowship (\$1250) funded by Graduate Studies based on academic research achievements
- Prairie Biotic Research Grant* **2012**
- Competitive grant (\$1000) funded by Prairie Biotic Research, Inc. to survey blow fly and carrion beetle species in the Nebraska Sandhills for one year
- Sam Taylor Fellowship Grant* **2011**
- Co-PI
  - Competitive grant (\$2000) funded by the Higher Education of the United Methodist General Board of Higher Education and Ministry to develop a chemically-baited trap to monitor blow fly populations in Texas and Nebraska.

## Awards

- Catherine McAuley Award for Teaching Excellence* **2017-2018**
- Faculty-nominated award based on proof of teaching effectiveness and student learning
  - Highest teaching honor award at College of Saint Mary
- Inspiring Excellence Award* **2016**
- Colleague-nominated award for "exemplary service to the college community"
- Job Well Done Award* **2015**
- Student-nominated award for teaching excellency
- BCE & ACE Certified Entomologists of Mid-America Entomology Educational Project Award* **2013**
- Competitive award for entomology education outreach
- Project Fulcrum Fellowship* **2009-2010**
- Competitive fellowship (\$30,000) funded by the NSF that teams scientists and K-12 teachers to produce more engaging science classes
- David H. and Anne E. Larrick/William G. Whitmore Memorial Travel Award* **2009**
- Travel award (\$500) to attend and present at the AAFS 2010 meeting in Seattle, Washington
- International Association for Identification Poster Contest* **2008**
- "Best Student Poster" Award-\$200 and crime scene textbook
- David H. and Anne E. Larrick/William G. Whitmore Memorial Travel Award* **2008**
- Travel award (\$500) to attend and present at the AAFS 2009 meeting in Denver, Colorado
- Myron H. Swenk Memorial Travel Fund* **2008**
- Travel award (\$350) to attend and present at the ESA 2008 meeting in Reno, Nevada

## Interviews and News

*College of Saint Mary Article*  
August 2022

"CSM Period chapter provides products, education about menstruation"  
<https://www.csm.edu/news/csm-period-chapter-provides-products-education-about-menstruation#overlay-context=news/csm-period-chapter-provides-products-education-about-menstruation>

*Journeys Alumnae Magazine*

Summer 2021

"Insect Collection at Devils Tower yields knowledge about Climate Change"

<http://online.fliphtml5.com/aqpv/fsjx/#p=21>

*Journeys Alumnae Magazine*

Winter 2018

"The Science of Life"

<http://online.fliphtml5.com/aqpv/qils>

*Journeys Alumnae Magazine*

Summer 2017

"The not-so-secret life of bees"

<http://fliphtml5.com/aqpv/czhh>

*Omaha World Herald*

April 27, 2017

"Honeybee hive at College of St. Mary is meant to show that not all insects are 'gross and icky'"

[http://www.omaha.com/news/education/honeybee-hive-at-college-of-st-mary-is-meant-to/article\\_234461c3-6e39-5f6c-b258-f675e18e10e0.html](http://www.omaha.com/news/education/honeybee-hive-at-college-of-st-mary-is-meant-to/article_234461c3-6e39-5f6c-b258-f675e18e10e0.html)

*Journeys Alumnae Magazine*

May 2016

"CSM Workshops Helping Teachers Put Wow Factor into K-6 STEM Classrooms"

<https://www.csm.edu/alumnae-friends/csm-workshops-helping-teachers-put-wow-factor-k-6-stem-classrooms>

*Journeys Alumnae Magazine*

Fall 2015

"Tools of the Trade"

<http://www.csm.edu/alumnae-friends/tools-trade>

*Scientific American*

September 13, 2012

<http://www.scientificamerican.com/article.cfm?id=forensic-entomologist-upends-conventional-theory-on-order-of-bugs-that-feast-on-corpses>

## Shows

*Art of the Tattoo*

February 28, 2019 through March 31, 2019

Collaborative show developed between me and Dr. Chris Krampe (Director of Fine Arts)

Conceptual design, opening night presenter, tattoo model

News Release: <https://www.csm.edu/news/tattoos-will-tell-story-college-saint-mary-exhibition>

*Metamorphosis: Insects as Art*

February 2015 through March 2015

Collaborative show developed between me and Jeff Spencer (Hillmer Art Gallery Director)

Worked closely with the artist for permissions and paintings, archived insect collections from 1940's/1950's Sisters of Mercy, provided student insect-based art work

## **TEACHING EXPERIENCE**

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College of Saint Mary

Omaha, Nebraska

**Assistant Professor**

**2014-2020**

- Anatomy and Physiology I, Anatomy and Physiology I Laboratory, Forensic Science, Advanced Forensic Science, Entomology, Scientific Literacy, Scientific Methods, Principles of Anatomy and Physiology, Principles of Anatomy and Physiology Laboratory

University of Nebraska-Lincoln

Lincoln, Nebraska

**Lab Instructor**

**2013-2014**

- Botany
- Duties: Taught all labs, prepared and graded practicals, setup lab exercises

**Instructor**

**2011**

- "Introduction to Forensic Science" Lab Course
- Duties: Taught all labs, prepared and graded practicals, setup lab exercises

## **TRAINING AND RELATED EXPERIENCE**

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### Training

**Fly School II**

**2019**

- Instructors Brian Brown, Dalton de Souza Amorim, Jim Hogue, Greg Dahlem, David Grimaldi  
100+ hour course on Diptera: their ecology, identification, and location  
Los Osos, CA  
June 24-July 5, 2019

**Math and Physics in Bloodstain Pattern Analysis**

**2012**

- Instructors Brian Yamashita and Fons Chafe  
40 hour course on math and physics and the application to bloodstain pattern analysis  
Kansas City, KS  
October 8-12, 2012

**LI-COR- LI-6400XT Portable Photosynthesis Training Course**

**2011**

- Instructors Tom Avenson, Jason Hupp, and Rick Garcia  
3 Day course on LI- 6400 including: theory, software, controls, maintenance and measurements  
Lincoln, NE

**Maggots for Murder: Insects in Death Investigations**

**2009**

- Instructor Dr. Neal Haskell  
3 Day course on insects and their use in death investigations  
Rensselaer, IN  
June 3-5, 2009

**Advanced Bloodstain Pattern Analysis Workshop**

**2009**

- Instructor Toby Wolson  
40 Hour advanced course to bloodstain pattern analysis  
Miami, FL  
May 11-15, 2009

**Forensic Imaging and Photoshop**

**2008**

- Instructors Mark Zabinski and Edward Downing  
4 Hour course on Adobe Photoshop and digital processing techniques  
Louisville, KY  
August 20, 2008

**Forensic Photography Workshop**

**2008**

- Instructor Rob Cheeseman

2 Day course on forensic applications of digital photography  
Lincoln, NE  
July 15-16, 2008

**Bloodstain Pattern Analysis Workshop**

**2008**

– Instructor Toby Wolson  
44 Hour introductory course to bloodstain pattern analysis  
Miami, FL  
January 21-25, 2008

Related Experience

**Research Technician**

**2007**

- Six weeks on a U.S. Coast Guard ship collecting, preserving, and identifying benthic predators in the Bering Sea

**OUTREACH**

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- Nebraska Wildlife Rehabilitation High School Science Academy – “Human Kinesiology”  
**January 2023**
- Ashland Public Library – “Pollinators of Nebraska”  
**June 2022**
- College of Saint Mary – Movie Screening of “Nature: My Garden of a Thousand Bees”  
(Co-hosted with the STEMinists Student Club)  
**May 2022**
- Martin Grade School (Martin, SD-virtual) – “Insects and their roles”  
**August 2021**
- Nebraska Wildlife Rehabilitation High School Science Academy – “Of Maggots and Men: Insects’ role in decomposition”  
**June 2021**
- Fontenelle Forest Boo in the Forest – “Cockroach painting”  
**October 2019**
- College of Saint Mary African American Summer Academy – “Human Body”  
**June 2019**
- College of Saint Mary Latina Summer Academy – “Human Body”  
**June 2019**
- Ashland Public Library Summer Series – “Insects”  
**June 2019**
- Hitchcock Insect Club – “Glacier Creek Insect Survey”  
**May 2019**
- Fontenelle Forest Boo in the Forest – “Cockroach painting”  
**October 2018**
- College of Saint Mary African American Summer Academy – “Water”  
**June 2018**
- College of Saint Mary Latina Summer Academy – “Water”  
**June 2018**
- Bright Beginnings Preschool – “Insects”  
**May 2018**
- Nebraska Wildlife Rehabilitation High School Science Academy – “Of Maggots and Men: Insects’ role in decomposition”

- **May 2018**
- Ashland Public Library Insect Club
- **April 2018**
- College of Saint Mary African American Summer Academy – “Serious Eats@CSM”
- **July 2017**
- College of Saint Mary Latina Summer Academy – “Serious Eats@CSM”
- **June 2017**
- University of Nebraska-Omaha – #OwnYourFuture: College/Career Fair Panel
- **June 2017**
- Montessori Education Center – “Bees and their hive”
- **May 2017**
- Saint Bernadette School – “Decomposition and our environment”
- **December 2016**
- College of Saint Mary African American Summer Academy – “Sustainability”
- **July 2016**
- College of Saint Mary Latina Summer Academy – “Sustainability”
- **June 2016**
- Nebraska Wildlife Rehabilitation High School Science Academy – “Of Maggots and Men: Insects’ role in decomposition”
- **May 2016**
- NESciFest – “Insects and our world”
- **April 2016**
- College of Saint Mary African American Academy – “CSI@CSM”
- **July 2015**
- Bright Lights Scientific Illustration Camp – “Maggot Art: Using maggots as paintbrushes”
- **July 2015**
- AAUW-Omaha Tech Savvy Conference – “It’s a Bug’s Life”
- **June 2015**
- College of Saint Mary Latina Summer Academy – “CSI@CSM”
- **June 2015**
- Guild of Natural Science Illustrators (Great Plains Chapter) – “Maggot Painting and Decomposition”
- **September 2014**
- Bright Lights Scientific Illustration Camp – “Maggot Art: Using maggots as paintbrushes”
- **June 2014**
- Lincoln Zoo School – “Ecology and identification of blow flies and their use in science”
- **March 2013**
- Sunday with a Scientist (Morrill Hall, University of Nebraska-Lincoln) – “Blow flies, Beetles, and Bad Guys: Ecology and Forensic Science”
- **January 2013**
- Bright Lights Scientific Illustration Camp – “Maggot Art: Using maggots as paintbrushes”
- **June 2012**
- Bright Lights Scientific Illustration Camp – “Maggot Art: Using maggots as paintbrushes”
- **June 2011**
- Lincoln Police Department Training Day – “How LPD can benefit from a University-related partnership”

**December 2010**

- Bright Lights Scientific Illustration Camp – “Maggot Art: Using maggots as paintbrushes”

**June 2010**

- Girl Scout Day Camp Presenter – “Forensic Entomology: Using insects to help solve crimes”

**June 2009**

- Volunteer for “Experience the Power of Bugs” UNL Entomology Department

**September 2008**

- Girl Scout Day Camp Presenter - “Forensic Entomology: Using insects to help solve crimes”

**July 2008**

- Volunteer for “Experience the Power of Bugs” UNL Entomology Department

**September 2007**

## **CASEWORK**

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**Douglas County Sheriff’s Department, August 2022: Case # 2022-0018838**

- Collected insect specimens, conducted insect identifications, submitted report

**State of Illinois v. Clifford Anderson, July 2018: Case # 4947-16-3036**

- 5<sup>th</sup> St/Route 71, Standard, Illinois
- Adult female, body found wrapped in a tarp, buried in shallow grave-MOD homicide
- Conducted analysis on photographs, interpreted results, consulted with case attorneys, testified

**State of Indiana v. Kareem Williams, May 2018: Case # 16L006915**

- 1426 West 18<sup>th</sup> Ave, Gary, Indiana; abandoned house
- Adult female, body found burned in the basement-MOD homicide (strangulation)
- Conducted analysis on photographs, interpreted results, consulted with case attorneys, testified

**State of Nevada v. Carlton Burnett, February 2018**

- San Bernardino County, Nevada
- Adult male, found in desert-MOD homicide (gunshots)
- Conducted analysis on photographs, interpreted results, consulted with case attorneys

**Carol McCann, as next friend of Catherine McCann v. Lutheran Home of the Aged Inc., 2014**

- Chicago, Illinois; nursing home
- Adult female, aural miayosis found by daughter
- Conducted insect identifications, assisted in report writing, and sat in for deposition
- Period of infestation: 9.13.2012 or earlier

**Litigation Counsel, January 2013-2017**

- Chicago, Illinois
- Civil-bird skeleton found in train car of sugar
- Separated entomological evidence, conducted insect identifications, and assisted in report writing

**Jasper County Prosecutor’s Office, March 2012: Case # 11-10785**

- Jasper County, Missouri
- 18 mth male, found deceased in crib-MOD homicide (abuse)
- Reviewed case photos and entomology evidence, and assisted in report writing

**Lincoln Police Department, May 2013: Case # B2-018862**

- SW 1st St and West A St, Lincoln, Nebraska; wooded area near walking trail
- Adult male, partially skeletonized-MOD unknown
- Collected insect specimens, conducted insect identifications
- No report required

**Lincoln Police Department, February 2012: Case # B2-008553**

- 1423 P St, Lincoln, Nebraska; apartment
- Adult male, found deceased on bed-MOD unknown
- Collected insect specimens, conducted insect identifications
- PMI: 1.15.2012 and 1.30.2012

**Lincoln Police Department, August 2011: Case # B1-082968**

- 1648 Euclid St, Lincoln, Nebraska; house
- Adult male, found deceased in chair-MOD natural death (unknown cause)
- Collected insect specimens, conducted insect identifications
- PMI: 8.20.2011 and 8.28.2011
- No report required

**Lincoln Police Department, August 2011: Case # B1-077244**

- 2816 Candlewood Dr, Lincoln, Nebraska; house
- Adult male, found deceased in bed-MOD natural death (heart attack)
- Conducted insect identifications, interpreted results
- PMI: 8.2.2011-8.14.2011

**Lincoln Police Department, September 2010: Case # B0-086407**

- 1944 L St, Lincoln, Nebraska; condemned house
- Adult male, found deceased in stairwell-MOD natural death (unknown cause)
- Assisted in insect sampling, preservation, and identification
- No report required

**Rockford Police Department, March 2009: Case #: 07-062-464**

- Conducted insect identifications, interpreted results, wrote and submitted report

**Lincoln Police Department, June 2008: Case #: 88-085627**

- 228 S 17<sup>th</sup> St, Lincoln, Nebraska, #109B
- MOD homicide (blunt force trauma to head)
- Original crime was in 1988
- Assisted in soil sample collection

**Nemaha County Attorney (c/o NSP), June 2008: Case #: MLA08-85**

- Assisted in insect identification

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**PROFESSIONAL MEMBERSHIPS**

**Nebraska Academy of Sciences**

- Member since 2015

**International Association of Bloodstain Pattern Analysts**

- Student Member, 2012-2014

**American Academy of Forensic Science**

- Associate Member, 2009-2017

**International Association for Identification**

- Member, 2008-2014

**Nebraska International Association for Identification**

- Member, 2008-2015

**Entomological Society of America**

- Member since 2004

**Gamma Sigma Delta Honor Society of Agriculture**



- University of Wyoming
- Inducted 2006

**Phi Theta Kappa Honor Society**

- Casper Community College
- Inducted 2004