

CIRRCULUM VITAE: AMANDA BARABAS

Department Genetics and Genome Sciences, Case Western Reserve University
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MISSION STATEMENT

Self-motivated laboratory animal behaviorist with excellent problem solving, data analysis, and writing abilities; passionate about improving laboratory animal welfare and promoting the 3R principles throughout various preclinical research processes, including proper statistical design.

EDUCATION

Case Western Reserve University, Cleveland, Ohio, USA

M.S., Biostatistics

2027 (expected)

Department of Population and Quantitative Health Sciences

Purdue University, West Lafayette, Indiana, USA

Doctor of Philosophy (Ph.D.), Animal Behavior and Welfare

May 2022

Department of Animal Science

Dissertation: “*Sniffing out friends and foes: How olfactory signals influence the social environment of male laboratory mice*”

Advisors: Brianna N. Gaskill & Marisa A. Erasmus

GPA: 3.97/4.0

Case Western Reserve University, Cleveland, Ohio, USA

B.S. (honors), cum laude

May 2014

Department of Biology

Senior Capstone: “*Influence of feeding schedule on wheel running in a male fossa (*Cryptoprocta ferox*)*”

Areas of Concentration: Molecular Biology, Animal Behavior

Minor: Chemistry

GPA: 3.76/4.0

REASEARCH EXPERIENCE

Department of Genetics and Genome Sciences, Case Western Reserve University, Cleveland, Ohio

Research Associate II

May 2022 – Present

- Manager of the Cystic Fibrosis Mouse Resource Center, approximately 90 strains in stock
- Provide sensitive mouse models of cystic fibrosis to internal and external researchers
- Design and execute basic and applied research on cystic fibrosis and laboratory mouse behavior/welfare; to date, ongoing projects investigate the following topics: causes of prenatal death in cystic fibrosis mouse models, how basic components of mouse husbandry impact model survival and general mouse reproduction, and how extrinsic factors vary in rodent housing rooms across cage location, cage group composition, and the external environment.
- Produced 2 peer reviewed publications and 6 presentations to date
- Implement changes in core SOPs based on mouse welfare literature and ongoing studies
- Update core record keeping to best utilize modern technology advancements
- Required skills: detailed record keeping abilities and adherence to time sensitive study protocols; designing research projects; writing grants for animal research and IACUC protocols; managing

data collection; proficiency with Microsoft Office, JMP, and R software; supervising undergraduate research assistants; and disseminating work through peer reviewed publications and conference presentations.

Department of Animal Sciences, Purdue University, West Lafayette, Indiana

Graduate Research Assistant (Ph.D.)

August 2017 – May 2022

- Managed seven research projects with minimal supervision to better understand animal behavior and communication, and improve animal welfare. These projects acquired \$40,853 in funding and produced 10 peer reviewed publications and 20 presentations.
- *In vivo* projects focused on chemical profiles, social behavior, repetitive abnormal behavior, nesting ability, olfactory discrimination, and environmental preferences in mouse subjects. Some projects required sound judgement to assess if animals became too sick or injured to complete the study
- Extensive training with general linear models and multivariate statistics
- *En vitro* skills include performing protein extraction protocols for liquid chromatography- tandem mass spectrometry and preparing fecal samples for enzyme immunoassays.
- Experience designing and analyzing data for a scoping literature review
- Trained to use the Sensory Sentinel™ environmental monitoring device
- Mentored 8 undergraduate students through training in behavioral methodology, statistics, and presentation design (both oral and poster).
- General skills and abilities: detailed record keeping abilities and adherence to time sensitive study protocols; designing research projects; writing grants for animal research and IACUC protocols; managing data collection; proficiency with Microsoft Office, JMP, and R software; mentoring undergraduate students; and disseminating work through peer reviewed publications and conference presentations.

Department of Conservation and Science, Cleveland Metroparks Zoo, Cleveland, Ohio

Undergraduate Research Assistant

2013 – 2014

- 3 semesters assisting with animal behavior and welfare research
- Tasks included recording and analyzing behavioral data for multiple animal species on exhibit including Goeldi's monkeys, golden lion tamarin, black footed cats, and fossae.

Case Western Reserve University School of Medicine, Cleveland, Ohio

Undergraduate Research Assistant

2012

- 1 semester studying variations in the sex determining region of the Y chromosome (SRY) protein
- Tasks included running electrophoresis on SDS-PAGE gels, cell culture work, transfection, and microscopic imaging

RELATED WORK EXPERIENCE

Office of Laboratory Animal Welfare

Virtual Intern

Jan – Feb 2021

- Completed a 4-week virtual internship, spending time in all three office divisions (Assurances, Compliance Oversight, Policy and Education).

- Obtained a detailed understanding of assurance requirements for federally funded research institutions, evaluated example cases of noncompliance with federal animal use policies, and contributed content to a page on the office's new website.
- This experience provided an in-depth overview of federal animal use policy requirements and an opportunity to develop communication skills through policy clarification and infographic design.

Case Western Reserve University

Research Assistant II, Department of Pediatrics

May 2014 – August 2017

- Co-managed a transgenic mouse colony under the Cystic Fibrosis Animal Core.
- Responsibilities included: detailed record keeping for collecting experimental data and phenotypic characterization of new mouse strains; administering oral and injectable experimental treatments; performing PCR assays
- Required skills: prioritizing to meet variable deadlines; strong communication to discuss colony status and experiment data with supervisors; detail orientation for data collection and breeding set up; adherence to IACUC guidelines

Case Western Reserve University

Research Assistant, Transgenic and Targeting Facility

Spring 2011 – Spring 2012

- Performed timed hormone injections on pregnant and pseudo-pregnant female mice
- Responsibilities included: adhering to strict timed protocols; detailed record keeping of treated mice

GRANTS

Turner Scientific Sensory Sentinel Grant

2020

Role: co-author (PI: Brianna Gaskill)

Gift in kind contribution, \$10,000 value

“Mapping environmental parameters to improve animal welfare using the Sensory Sentinel™”

Purdue Center for Animal Welfare Science Grant

2019

Role: co-author (PI: Brianna Gaskill)

\$24,953 funded

“Evaluating candidate chemosignals to improve management of mouse aggression”

Animal Welfare Institute Refinement Grant

2019

Role: co-author (PI: Brianna Gaskill)

\$5,900 funded

“Social network analysis of group housed male mice”

AWARDS

Overall High Score: 3-minute speaking competition

2023

\$100 prize given for audience comprehension of a research topic explained in 3 minutes; awarded at the Case Western Reserve University/Rainbow Babies & Children's Hospital Cystic Fibrosis Center Annual Retreat

Purdue Graduate Student Government Travel Grant

2020

\$500 towards attendance at the North American Regional Meeting of the ISAE

*postponed to 2022 due to COVID-19

Featherston Off Campus Training Award	2020
\$1,000 towards living expenses during an unpaid internship at the Office of Laboratory Animal Welfare	
*changed to virtual format due to COVID-19	
Purdue Boilers Work Internship Funding	2020
\$4,000 to fund an unpaid internship at the Office of Laboratory Animal Welfare	
*changed to virtual format due to COVID-19	
Purdue Graduate Student Government Professional Grant	2020
\$710 towards living expenses during an unpaid internship at the Office of Laboratory Animal Welfare	
*changed to virtual format due to COVID-19	
Swiss National Science Foundation Travel Grant	2019
1,800 CHF (\$1,850) towards attending a 3 day workshop, “Visualizing and assessing data at the level of the individual”	
*Postponed due to COVID-19	
Purdue Graduate Student Government Travel Grant	2019
\$500 towards attendance at the 53 rd Congress of ISAE	
International Society of Applied Ethology Congress Attendance Fund	2019
3,350 NOK (\$385) towards attendance at the 53 rd Congress of ISAE	
Choose Ohio First Scholarship	2011 – 2014
\$1,000 per semester towards tuition between fall 2011 and spring 2014, \$6,000 cumulative	

PUBLICATIONS

Barabas, A.J., Conlon, R.A., Hodges, C.A. Think beyond the room: Measuring relative humidity in the home cage and its impact on reproduction in laboratory mice, *Mus musculus. Animals* (2024).

<https://doi.org/10.3390/ani14223164>

Michicich, M.M., Traylor, Z., McCoy, C., Valerio, D.M., Wilson, A., Schneider, M., Davis, S., **Barabas, A.J.**, Mann, R.J., LePage, D.F., Jiang, W., Drumm, M.L., Kelley, T.J., Conlon, R.A., Hodges, C.A. A W1282X cystic fibrosis mouse allows the study of pharmacological and gene-editing therapeutics to restore CFTR function. *Journal of Cystic Fibrosis* (2024). <https://doi.org/10.1016/j.jcf.2024.10.008>

Swan, M., Horvath, A., Pritchett, R.K., **Barabas, A.J.**, Hickman, D., Gaskill, B.N. The future isn't bright: Evaluation of rat preferences for color or intensity of light. *Animals* (2024).

<https://doi.org/10.3390/ani14142045>

Barabas, A.J., Darbyshire, A.K., Schlegel, S.L., Gaskill, B.N. Ambient sound, vibration, and light levels across rodent housing rooms at a large land grant university. *Journal of the American Association for Laboratory Animal Science* (2022). <https://doi.org/10.30802/AALAS-JAALAS-22-000040>

Barabas, A.J., Soini, H.A., Novotny, M.V., Lucas, J.R., Erasmus, M.A., Cheng, H.W., Palme, R., Gaskill, B.N. Assessing the effects of compounds from plantar foot sweat, used nesting material, and urine on social behavior in male mice, *Mus musculus. PLoS ONE* (2022).

<https://doi.org/10.1371/journal.pone.0276844>

Barabas, A.J., Aryal, U.K., Gaskill, B.N. Protein profiles from used nesting material, saliva, and urine influence social behavior in group housed male mice, *Mus musculus. Journal of Proteomics* (2022); 104685. <https://doi.org/10.1016/j.jprot.2022.104685>

Barabas, A.J., Robbins, L.A., Gaskill, B.N. Home cage measures of Alzheimer's disease in the rTg4510 mouse model. *Genes, Brain, and Behavior* (2022); e12795. <http://doi.org/10.1111/gbb.12795>

Davis, H.J., **Barabas, A.J.**, Gaskill, B.N. Titrating the preferences for altered lighting against temperature in female CD-1 laboratory mice, *Mus musculus*. *Applied Animal Behaviour Science* (2022) 246:105541. <https://doi.org/10.1016/j.applanim.2021.105541>

Barabas, A.J., Dijak, S.R., Yacilla, J.F., Walker, D.N., Gaskill, B.N. Modulating captive mammalian social behavior: a scoping review on olfactory treatments. *Applied Animal Behaviour Science* (2021) 244:105489. <https://doi.org/10.1016/j.applanim.2021.105489>

Barabas, A.J., Lucas, J. R., Erasmus, M. A., Cheng, H. W., Gaskill, B.N. Who's the boss? Assessing convergent validity of aggression based dominance measures in male laboratory mice, *Mus musculus*. *Front. Vet. Sci* (2021) 8:695948. <https://doi.org/10.3389/fvets.2021.695948>

Barabas, A.J., Soini, H.A., Novotny, M.V., Williams, D.R., Desmond, J.A., Lucas, J. R., Erasmus, M. A., Cheng, H. W., Gaskill, B.N. Compounds from plantar foot sweat, nesting material, and urine show strain patterns associated with agonistic and affiliative behavior in group housed male mice, *Mus musculus*. *PLoS ONE* (2021). <https://doi.org/10.1371/journal.pone.0251416>

Barabas, A.J., Aryal, U. K., and Gaskill, B.N. Proteome characterization of used nesting material and potential protein sources in group housed male mice, *Mus musculus*. *Scientific Reports* (2019) 9:17524. <https://doi.org/10.1038/s41598-019-53903-x>

IN PRESS

UNDER REVIEW

IN PREP

Barabas, A.J., Davis, S., Hodges, C.A. Assessing reproductive performance across various types of bedding in a transgenic mouse model of cystic fibrosis.

EXTENSION ARTICLES

Barabas, A.J., Gaskill, B.N. Breaking up the fight before it begins: Detecting early signs of inter-male aggression in mice. *Animal Welfare Institute Quarterly* (2022) 71(1).

INVITED TALKS

“Humidity in the home cage and effects on mouse pup survival” 2025

Amanda J. Barabas

Virtual presentation to the Institutional Animal Care and Use Committee at Case Western Reserve University

“Assessing environmental parameters in mouse rooms across Purdue’s campus” 2022

Amanda J. Barabas

Virtual webinar to the Laboratory Animal Program managers and staff at Purdue University

“On the scent: Understanding how odors impact social behavior in male mice” 2021

Amanda J. Barabas

Virtual presentation to the Office of Laboratory Animal Welfare

SCIENTIFIC PRESENTATIONS- ORAL

“Nesting material quantity does not impact small intestinal transit speed in C57BL/6 mice” 2025

Amanda J. Barabas, Sakeena Davis, and Craig A. Hodges

76th American Association for Laboratory Animal Science National Meeting,
Long Beach, CA (*abstract accepted)

“Lower relative humidity in breeding cages of C57B6/J mice is associated with

- higher pup mortality”* 2024
Amanda J. Barabas and Craig A. Hodges
 75th American Association for Laboratory Animal Science National Meeting,
 Nashville, Tennessee
- “Impact of aspen versus corn cob bedding on reproductive measures in a transgenic mouse model of cystic fibrosis”* 2023
Amanda J. Barabas and Craig A. Hodges
 74th American Association for Laboratory Animal Science National Meeting,
 Salt Lake City, Utah
- “Mice make moisture: Comparing relative humidity in the housing room and home cage”* 2023
Amanda J. Barabas and Craig A. Hodges
 74th American Association for Laboratory Animal Science National Meeting,
 Salt Lake City, Utah
- “Better husbandry, better data: an emphasis on special care”* 2023
Amanda J. Barabas
 3-minute presentation competition held at the Case Western Reserve
 University/Rainbow Babies & Children’s Hospital Cystic Fibrosis Center Annual Retreat
 Cleveland, Ohio
- “Assessing ambient noise and vibration across vivaria at a large land grant university”* 2021
Amanda J. Barabas, Amanda K. Darbyshire, Sylvia L. Schelegel, and Brianna N. Gaskill
 72nd American Association for Laboratory Animal Science National Meeting,
 Kansas City, Missouri
- “Practical measures of dominance to reduce aggression and improve welfare in male laboratory mice, *Mus musculus*”* 2021
Amanda J. Barabas, Jeffrey R. Lucas, Marisa A. Erasmus, Heng-Wei Cheng,
 and Brianna N. Gaskill
 University of Chicago’s Midwest Women in Science Conference
 virtual conference
- “Who’s the boss? Environmental influences on power distribution in male laboratory mice”* 2020
Amanda J. Barabas, Jeffrey R. Lucas, and Brianna N. Gaskill
 Animal Behavior Society,
 Knoxville, Tennessee *abstract submitted; canceled due to COVID-19
- “Using ethology to assess Alzheimer’s disease in the rTg4510 mouse model”* 2020
Amanda J. Barabas, Lindsey Robbins, and Brianna N. Gaskill
 North American Regional Meeting of the International Society for Applied Ethology,
 Davis, CA *abstract accepted; canceled due to COVID-19
- “Serene Scents: plantar gland secretions influence male mouse social behavior in the home cage”* 2019

Amanda Barabas, Helena Soini, Milos Novotny, and Brianna N. Gaskill
 70th American Association for Laboratory Animal Science National Meeting,
 Denver, Colorado

“Sweaty secrets: plantar gland secretions influence male mouse social behavior in the home cage”

2019

Amanda Barabas, Helena Soini, Milos Novotny, and Brianna N. Gaskill
 53rd Congress of the International Society for Applied Ethology
 Bergen, Norway

“Identifying candidate aggression reducing pheromones to improve mouse welfare”

2019

Amanda Barabas, Uma Aryal, Helena Soini, Milos Novotny, and Brianna N. Gaskill
 ThermoFisher Scientific Applied Technologies Seminar,
 West Lafayette, Indiana

“Identifying candidate aggression reducing pheromones to improve mouse welfare”

2018

Amanda Barabas, Uma Aryal, and Brianna N. Gaskill
 Bindley Bioscience Center Graduate Student Proteomics Research Symposium,
 West Lafayette, Indiana

“Olfaction and aggression in the laboratory”

2018

Amanda Barabas, Uma Aryal, Helena Soini, Milos Novotny, and Brianna N. Gaskill
 69th American Association for Laboratory Animal Science National Meeting,
 Baltimore, Maryland

*“Influence of feeding schedule on wheel running in a male fossa (*Cryptoprocta ferox*)”*

2014

Amanda Barabas, Jason Wark, and Kristen Lukas
 Senior honors thesis defense to faculty panel and zoo staff, Cleveland, Ohio

SCIENTIFIC PRESENTATIONS- POSTER

“Modulating captive animal social behavior: a scoping review on olfactory treatments”

2022

Amanda J. Barabas, Stephanie R. Dijak, Jane F. Yatcilla, Danielle N. Walker,
 and Brianna N. Gaskill
 North American regional meeting of the International Society for Applied Ethology,
 Davis, California

*“Assessing the preference for thermoneutral temperature or reduced light in laboratory mice, *Mus musculus*”*

2021

Haley J. Davis, **Amanda J. Barabas**, and Brianna N. Gaskill
 72nd American Association for Laboratory Animal Science National Meeting,
 Kansas City, Missouri

*“Practical measures of dominance to reduce aggression and improve welfare in male laboratory mice, *Mus musculus*”*

2021

Amanda J. Barabas, Jeffrey R. Lucas, Marisa A. Erasmus, Heng-Wei Cheng,
and Brianna N. Gaskill

54th Congress of the International Society for Applied Ethology
virtual conference

*"Validating measures of dominance in male laboratory mice to better
understand home cage aggression"*

2021

Amanda J. Barabas, Jeffrey R. Lucas, Marisa A. Erasmus, Heng-Wei Cheng,
and Brianna N. Gaskill

Recent advances in animal welfare science VIII,
Universities Federation for Animal Welfare
virtual conference

*"Who's the boss? Environmental influences on power distribution in male
laboratory mice"*

2020

Amanda J. Barabas, Jeffrey R. Lucas, and Brianna N. Gaskill
71st American Association for Laboratory Animal Science National Meeting,
virtual conference

*"Who's the boss? Environmental influences on power distribution in male
laboratory mice"*

2020

Amanda J. Barabas, Jeffrey R. Lucas, and Brianna N. Gaskill
Rodent Welfare Meeting, the Royal Society for the Prevention of Cruelty
to Animals and Universities Federation for Animal Welfare
virtual conference

"Stereotypic behavior in the rTg4510 mouse model of Alzheimer's disease"

2020

Amanda Barabas, Lindsey Robbins, and Brianna N. Gaskill
Laboratory Animal Sciences virtual conference hosted by LabRoots

"Urine, nest, and sweat odors influence male mouse social behavior"

2020

Amanda Barabas, Helena Soini, Milos Novotny, and Brianna N. Gaskill
Purdue University Sigma Xi Graduate Student Poster Competition,
West Lafayette, Indiana

"Identifying Candidate Aggression Reducing Pheromones in Male Mice"

2019

Amanda Barabas, Uma Aryal, and Brianna N. Gaskill
Purdue University Discovery Park and College of Agriculture poster session,
West Lafayette, Indiana

"Earth Worm Action Potential"

2013

Amanda Barabas
Annual Choose Ohio First poster session, Youngstown, Ohio

"Using the Ames Test to Predict the Carcinogenicity of Common Food Additives"

2012

Amanda Barabas
Annual Choose Ohio First poster session, Cleveland, Ohio

SCIENTIFIC PRESENTATIONS- CONTRIBUTED

- “Targeted eRF3a degradation amplifies nonsense mutation readthrough in a CF murine model”* 2025
 Lisa Nicholson*, Zach Traylor, Caitlan McCoy, Molly Schneider, Sakeena Davis, **Amanda Barabas**, E. Bulik-Sullivan, Scott Randell, Craig Hodges
 North American Cystic Fibrosis Conference,
 Seattle, WA
- “A CFTR mouse model to study nonsense mutations independent of nonsense-mediated decay”* 2025
 Lisa Nicholson*, Margaret Michicich, Zach Traylor, Caitlan McCoy, Molly Schneider, Sakeena Davis, **Amanda Barabas**, Mitch Drumm, Ron Conlon, Craig Hodges
 North American Cystic Fibrosis Conference,
 Seattle, WA
- “Cystic fibrosis mouse model resource center”* 2023
 Ron Conlon*, **Amanda Barabas**, Deborah Corey, Sakeena Davis, Lori Duesler, Weihong Jiang, David LePage, Rachel Mann, Sara Mansbach, Julie Rosenjack, Molly Scheider, Zach Traylor, Michael Wilson, Thomas Kelley, Craig Hodges
 North American Cystic Fibrosis Conference,
 Pheonix, AZ
- “Modulating captive animal social behavior: a scoping review on olfactory treatments”* 2022
Amanda J. Barabas, Stephanie R. Dijak, Jane F. Yatcilla, Danielle N. Walker, and Brianna N. Gaskill*
 Federation of European Laboratory Animal Science Associations
 Marseille, France
- “Assessing bias in odor communication studies”* 2021
 Stephanie Dijak*, **Amanda Barabas**, Marisa Erasmus, and Brianna N. Gaskill
 Purdue University Undergraduate Research Conference,
 West Lafayette, Indiana
- “Assessing preference for temperature or light in laboratory mice”* 2020
 Haley Davis*, **Amanda Barabas**, and Brianna N. Gaskill
 Purdue University Summer Undergraduate Research Fellowship Symposium,
 West Lafayette, Indiana

*presenting author

MENTORING

Direct mentoring and supervision of 8 undergraduate assistants

Katie Bachert: Summer 2018. Research Assistant

Nicole Brockway: Fall 2018- Spring 2020. Research Assistant

Taylor Fidler-Jarzyniecki: Fall 2019- Spring 2020, Research Assistant

Kate Leeson: Fall 2019- Spring 2020, Research Assistant

Leslie Tibbets: Fall 2019- Spring 2020, Research Assistant

Alexis Oriz-Milland: Spring 2020, Research Assistant

Stephanie Dijak: Spring 2020- Fall 2021, Research Assistant

Haley Davis: Summer 2020- Summer 2021, Summer Undergraduate Research Fellow & Research Assistant

AWARDS OF MENTORED STUDENTS

2nd Place at Purdue Undergraduate Research Conference in College of Agriculture 2021
\$200, Stephanie R. Dijak

Department of Animal Sciences Outstanding Sophomore, Purdue University 2021
\$3000, Stephanie R. Dijak

NOTABLE CAREER PATHS OF MENTORED STUDENTS

- Katie Bachert: completed a Master of Science degree at University of CA, Davis, and a PhD at Purdue University
- Taylor Fidler-Jarzyniecki: accepted into the Doctor of Veterinary Medicine program at Purdue University
- Haley Davis: accepted into the Doctor of Veterinary Medicine program at Purdue University
- Stephanie Dijak: early admission into the Doctor of Veterinary Medicine program at Purdue University through the Purdue Veterinary Scholars Program

TEACHING EXPERIENCE

Guest lecture: OEB 104- The Mouse in Science and Society Fall 2023

- Guest lecture on male mouse dominance
- Evaluated student presentations and discussion in a journal club format

Professor: Kathleen Pritchett-Corning, Harvard University

Teaching Assistant: STAT 190- The Data Mine, 1 credit Fall 2019 – Spring 2020

- Member of the Integrative Data Science Initiative that aims to introduce undergraduates, across all majors, to computer coding in order to prepare them to manage big data.
- Responsibilities included: proficiency with coding in R; guiding students one on one through new coding schemes; grading student assignments; and learning new methods for handling data.

Professor: Mark D. Ward, Purdue University

Teaching Assistant: ANSC 303-Animal Behavior, 3 credits Spring 2019

- Assisted with an upper level course that aims to introduce undergraduates to the field of animal behavior science.
- Responsibilities included: developing exam material; grading quizzes, exams, and laboratory assignments; leading the following lectures:
 - 50-minute lecture on instrumental learning, featuring a live canine demonstration
 - 50-minute lecture on olfactory communication

Professor: Brianna N. Gaskill, Purdue University

PROFESSIONAL MEMBERSHIPS

American Association for Laboratory Animal Science	2016- 2017; 2020- Present
Animal Behavior Society	2019- 2021
International Society for Applied Ethology	2017- 2024
American Association for the Advancement of Science	2017- 2020

AD HOC REVIEWER

- Scientific Reports
- Applied Animal Behavior Science
- Journal of Applied Animal Welfare Science
- Journal of the American Association for Laboratory Animal Science
- Animals

COMMUNITY OUTREACH/ SERVICE

Case Western Reserve University	
Institutional Animal Care and Use Committee Member	2022 – 2025
Evaluate protocols that use live vertebrate animal subjects for research and teaching and present summaries to the full committee; participate in semi-annual facility inspections; evaluate investigations of non-compliance with federal animal use regulations.	

International Society for Applied Ethology	
Help with English Program Volunteer	2020 – 2024
Evaluate manuscripts submitted by society members for grammar and fluidity. Manuscripts are typically submitted by researchers whose first language is not English, with the intention to publish in an English speaking journal.	

Purdue Graduate Student Government	
Grant Review and Allocation Committee	2020 – 2022
Evaluate grants submitted by graduate students on a monthly basis to fund individual conference travel, professional development, and student organization events/symposiums	

Purdue University Undergraduate Research Conference	
Volunteer Judge	2021, 2022
Evaluated oral and poster presentations by undergraduate students in various colleges	

Lafayette Regional Science and Engineering Fair	
Volunteer Judge	2018, 2021
Evaluated poster presentations by K-12 students in the biomedical and health sciences category.	

PROFESSIONAL DEVELOPMENT

Digitalization in Laboratory Animals: Cost reduction, improved animal welfare And better scientific output with Digital Ventilated Cages (DVC)	2023
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Techniplast

8 hour series of presentations outlining the benefits and future directions of utilizing DVC racks for collecting research data and improving labor efficiency in laboratory animal facilities

Introduction to IACUCs Course**2023**

Amy Kilpatrick

Massachusetts Society for Medical Research

6 week course detailing the history, function, composition, and responsibilities of Institutional Animal Care and Use Committees.

Ethics for applied ethology and welfare research**2021**

Dr. Anna Olsson, Dr. Irene Camerlink, Dr. Péter Pongrácz, Dr. Maria Camila Ceballos,

Dr. Huw Golledge, Dr. Birte Nielsen, Dr. Jen-Yun Chou, Dr. Alex Whittaker

International Society of Applied Ethology

2-hour workshop on how to handle ethical challenges of designing and executing animal welfare research.

Animal Learning**2019**

Dr. Kristina Horback, Dr. Dorte Sorensen

International Society of Applied Ethology

2-hour workshop on the use of positive reinforcement training for various procedures in a variety of species.

Jefferson Science Symposium**2019**

Purdue Systems Collaboratory

4-hour lecture series and networking lunch with Jefferson Science Fellows describing how science can be utilized to address global problems and shape policy

Introductory Workshop for Adobe Illustrator**2019**

1-hour workshop on navigating Adobe Illustrator for creating and modifying graphic files

NIH Fellowship F31 Information Session**2019**

Dr. Lisa R. Nielsen, Purdue University Graduate School Profession Development

1-hour workshop describing the expected structure and content of the NIH F31 Predoctoral Fellowship Award

Scientific Writing from the Readers Perspective**2018**

Dr. George Gopen, Indiana School of Medicine Office of Faculty Affairs and Professional Development

9-hour workshop by the author of The Science of Scientific Writing to write for reader comprehension

How to Deliver a Winning Presentation**2018**

Dr. Jennifer Hall, Purdue University Graduate School Profession Development

1-hour workshop on improving presentation delivery and maintaining audience engagement

Canine Welfare Science Forum**2018**

Center for Animal Welfare Science, Purdue University

8-hour seminar series on improving welfare of dogs in commercial breeding facilities

Graduate Student Association Industry Tour**2018**

Guided tours of Elanco and Covance facilities in Indiana. Attended Q&A sessions with a panel of current employees and presentations about career opportunities.

Intro to Data Management**2017**

Bethany McGowan, Purdue University Graduate School Professional Development

1-hour workshop on best practices for collecting, storing, and sharing data and metadata in the scientific community

Data Organization with Excel I**2017**

Dr. Pete Pascuzzi, Department of Library Science, Purdue University

1-hour interactive workshop on utilizing Microsoft Excel for data management