Melissa S. Plakke

Division of Science, Mathematics, and Technology Governors State University, University Park, IL 60484

E-mail: <u>mplakke@govst.edu</u> Melissaplakke.weebly.com

EDUCATION

2013-2019	Ph.D. Biological Sciences, Minor in Teaching. University of Pittsburgh, PA.
	Dissertation: "Post-mating, pre-zygotic interactions and their potential to drive
	speciation in the Cabbage White butterfly, <i>Pieris rapae</i> "
2009-2012	B.S. in Zoology with Honors, B.S. in Biological Sciences. Colorado State
	University, CO.

RESEARCH INTERESTS

Role of genetic diversity in evolution, co-evolution, speciation, sexual conflict, reproduction

RESEARCH EXPERIENCE

RESERVED EXILENCE		
2022-present	Assistant Professor, Governors State University	
2019-2021	Post-doctoral NIH IRACDA Fellow, University of Kansas	
	Advisor: Dr. James Walters	
	Project: Exploring the evolution and development of dimorphic sperm across Lepidoptera	
2013-2019	Ph.D. Candidate, University of Pittsburgh.	
	Advisors: Dr. Nathan Clark and Dr. Nathan Morehouse	
	Project: Assessing the relative role that sexual conflict and cooperation play in	
	driving reproductive coevolution and speciation in butterflies	
2012-2013	NSF-REU Undergraduate Researcher. Mueller lab, Colorado State University	
	Advisor: Dr. Rachel Mueller	
	Project: Determining the phylogenetics of salamanders and comparing nuclear genome evolution to mitochondrial genome evolution	
2011-2012	Undergraduate Senior Thesis. Colorado State University	
	Advisor: Dr. Kim Hoke	
	Project: Evaluating genetic diversity, inbreeding, and infant mortality in captive breeding programs for cheetah populations around the world	
2010-2012	Undergraduate assistant. Coughenour lab, Colorado State University	
	Advisor: Sarah Maisonneuve	
	Project: Identifying and addressing sources of conflict between humans and elephants in Tanzania	

RESEARCH GRANTS

Under Review	NSF BRC-BIO (\$486,497 requested)
	PI. "Evolutionary drivers of dimorphic sperm function and development"
2019-2021	NIH IRACDA (\$170,000)
2017	Graduate Student Organization Summer Research Grant (\$500)
	PI. "How to Make a Butterfly: The Process of One Species Becoming Two."

2017	Arthur and Barbara Pape Endowment Award (\$3,190) PI. "Assessing divergence and evolutionary drivers in the reproductive tracts of	
2017	the Cabbage White butterfly, <i>Pieris rapae</i> " NSF EAPSI/JSPS Summer Fellow (\$15,000) PI. "Assessing Butterfly Evolutionary Divergence in a Post-mating, Pre-zygotic	
2015	Interaction" Grant in Aid of Research, Sigma Xi (\$700) PI. "Protease-substrate specificity in a digestive female reproductive organ"	
TRAVEL SU	TPPORT	
2022	SSE Caregiver Award, Society for the Study of Evolution (\$500)	
2018	Elizabeth Dillion Travel Award, University of Pittsburgh (\$600)	
2017	SICB Charlotte Magnum student travel support (\$100)	
2016	Travel Grant, A&S PBC, University of Pittsburgh (\$600)	
2016	Travel Grant, Graduate and Professional Student Government (\$170)	
2016	Travel Grant, A&S GSO, University of Pittsburgh (\$200)	
2016	SICB Charlotte Magnum student travel support (\$140)	
2015	Travel Grant, Graduate and Professional Student Government (\$250)	
2015	Travel Grant, Society of Systematic Biologists (\$1,750)	
2015	Travel Grant, Society for the Study of Evolution (\$800)	
2013	Travel Grant, American Genetics Association (\$500)	
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2023	Intellectual Life Grant, "Evolution Film Festival", Governors State University (\$495.90)	
2019	3MT Natural Sciences, 3 rd place, University of Pittsburgh	
2019	3MT Biological Sciences Finalist, University of Pittsburgh	
2018	Stanton C. Crawford Teaching Award, University of Pittsburgh	
2018-2019	Andrew Mellon Predoctoral Fellowship, University of Pittsburgh (\$23,628)	
2018	Graduate Expo Outstanding Presenter, University of Pittsburgh (\$100)	
2017	SMBE Satellite Conference Funds (\$5,000)	
2016-2017	Ivy McManus Diversity Fellowship, University of Pittsburgh (\$21,262)	
2015	Honorable Mention, NSF GRFP	
2014	Honorable Mention, NSF GRFP	
2013-2014	First Year Fellowship. University of Pittsburgh (\$20,488)	
2013	Honorable Mention, NSF GRFP	
PUBLICATIONS (*indicates undergraduate co-author)		
In revision	Plakke, M.S. "Inbreeding Depression among Captive Cheetahs and Implications	
	for Wild Populations."	
2021	Echeverri, S.A., Miller, A.E., Chen, J., McQueen, E.W., Plakke, M., Spicer, M.,	
	Hoke, Stoddard, M.C., Morehouse, N.I. (2021). How signaling geometry shapes	
2019	the efficacy and evolution of animal communication systems. <i>ICB</i> . 61(3): 787-813. Plakke, M.S., Walker, J.L., *Lombardo, J.B., *Goetz, B.J., *Pacella, G.N., Durrant, J.D., Clark, N.L., Morehouse, N.I. "Characterization of Female	

- Reproductive Proteases in a Butterfly from Functional and Evolutionary Perspectives." *PBZ*. 92 (6): 579-590.
- Meslin, C., *Cherwin, T.S., **Plakke, M.S.,** Hill, J., *Small, B.S., *Goetz, B.J., Wheat, C.W., Morehouse, N.I., Clark, N.L. "The complexity and molecular heterogeneity of a butterfly ejaculate reflect a complex history of selection." *PNAS*. 114 (27): E5406-E5413.
- Plakke, M.S., *Deutsch, A.B., Meslin, C., Clark, N.L., Morehouse, N.I. "Dynamic digestive physiology of a female reproductive organ in a polyandrous butterfly." *J. Exp. Biol.* 218 (10): 1548-1555.
- Meslin, C., **Plakke, M.S.,** *Deutsch, A.B., *Small, B.S., Morehouse, N.I., Clark, N.L. "Digestive Organ in the Female Reproductive Tract Borrows Genes from Multiple Organ Systems to Adopt Critical Functions." *Mol. Bio. Evol.* 32 (6): 1567-1580.

INVITED REVIEW ARTICLES/BOOK CHAPTERS

- In Press
 Garlovsky, M.D., Whittington, E., Albrecht, T., Arenas-Castro, H., Castillo, D.M., Keais, G.L., Larson, E.L., Moyle, L.C., **Plakke, M.S.,** Reifová, R., Snook, R.R., Ålund, M., Weber, A.A.-T. "Synthesis and scope of the role of post-mating prezygotic isolation in speciation." *Cold Springs Harbor: Perspectives in Biology*.
- In prep Plakke, M.S., Clark, N.L., Morehouse, N.I. "Reproductive proteases and their role in post-mating, pre-zygotic interactions." *Molecular Reproductive Development*.

INVITED SEMINARS

- Reproductive co-evolution and incipient speciation in the Cabbage White butterfly. Department of Biology, Missouri State University, MO.
- 2017 Man Eater: Reproductive Digestion and its Repercussions for Coevolution. Pymatuning Laboratory of Ecology, PA.

PRESENTATIONS

- Single-cell gene expression of dimorphic lepidopteran sperm. UIC-GSU IRACDA Retreat, Chicago, IL. Poster.
- Single-cell gene expression of lepidopteran sperm morphs across developmental stages. Evolution conference. Virtual Talk.
- Patterns of small non-coding RNA expression across dimorphic sperm. Great Plains Genetic Conflict conference, Lawrence, KS. Poster.
- Patterns of small non-coding RNA expression across dimorphic sperm. Society for Integrative and Comparative Biology conference, Austin, TX. Poster.
- A recent, lineage-specific, co-option event within the female reproductive tract of the Cabbage White butterfly, *Pieris rapae L.* Society for Integrative and Comparative Biology conference, Austin, TX. Talk.
- Divergence at a post-mating, pre-zygotic interface in the Cabbage White butterfly. Biology of Spermatozoa Meeting, Nynäshamn, Sweden. Poster.
- Divergence at a post-mating, pre-zygotic interface in the Cabbage White butterfly. Evolution conference, Providence, RI. Talk.
- 2018 Co-Evolution Between the Male and Female Reproductive Tracts of the Cabbage White Butterfly. Three Rivers Evolution Event, Pittsburgh, PA. Poster.

White Butterfly. Evolution conference, Montpellier, FR. Poster. Investigating Functional Divergence in Reproductive Physiology as a Driver of Butterfly Speciation. SOKENDAI, Japan. Poster. Investigating Digestive Properties of Reproductive Proteases in a Female Butterfly. Society for Integrative and Comparative Biology conference, New Orleans, LA. Talk. 2016 Molecular Dynamics and Phenotypic Divergence in a Post-Copulatory Interaction in the Butterfly Pieris rapae. Evolution conference, Austin, TX. Poster. Investigating Reproductive Coevolution Using Butterflies as a Model. University of Pittsburgh, PA. Seminar 2016 Stomachs in Your Butterfly: Exploring the Identity and Activity of Proteases in the Reproductive Tract of Female Butterflies. Society for Integrative and Comparative Biology conference, Portland, OR. Poster. 2015 Dynamic Digestive Physiology of a Female Reproductive Organ in a Polyandrous Butterfly. Evolution conference, Guarujá, Brazil. Talk. 2014 Evolution and Co-Evolution of Derived Reproductive Traits in a Polyandrous Butterfly. University of Pittsburgh, PA. Seminar. 2014 Extreme Digestive Physiology in a Female Reproductive Organ Mediating Sexual Conflict in a Polyandrous Butterfly. International Society for Behavioral Ecology conference, New York, NY. Poster. 2014 Cellular Processes Generating a Highly Divergent Reproductive Trait. University of Pittsburgh, PA. Talk. 2014 Sexual Cooperation and Conflict in Male and Female Molecular Interactions. University of Pittsburgh, PA. Talk. 2015 Genetic diversity among captive cheetahs and implications for wild populations. Colorado State University, CO. Talk.	2018	Co-Evolution Between the Male and Female Reproductive Tracts of the Cabbage
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TEACHING CERTIFICATIONS

2023	Addressing Academic Adjustment and Auxiliary Aid Accommodation Requests
2022	Quality Matters: Think Beyond the Syllabus
2020	Practitioner in Digital Teaching and Learning Blackboard Certification
2019	Teaching Minor in College Biology, University of Pittsburgh
2019	Pedagogy Badge, University of Pittsburgh
	Concentrations in Educational Technology, Pedagogy, and Diversity

TEACHING EXPERIENCE

 $Governors\ State\ University.\ IL$

2023 FA	BIOL 1511 General Biology II Lab
	BIOL 4990 Undergraduate Research I
	BIOL 7110 Graduate Seminar
2023 SU	BIOL 4000 Women in Science
2023 SP	BIOL 1510 General Biology II
	BIOL 1511 General Biology II Lab

2022 FA	BIOL 4965 Capstone Evolution BIOL 7110 Graduate Seminar BIOL 1510 General Biology II BIOL 1511 General Biology II Lab BIOL 4080 Special Topics: Developmental Biology (Undergraduate)	
2022 SP	BIOL 6080 Special Topics: Developmental Biology (Graduate) BIOL 1510 General Biology II BIOL 1511 General Biology II Lab BIOL 4965 Capstone Evolution BIOL 7110 Graduate Seminar	
Haskell India	n Nations University, KS	
2021 SP	BIOL 290 Wildlife Biology	
2020 FA	BIOL 103 General Biology Lecture	
University of Pittsburgh, PA		
2019 SU	BIOSC 0057 Foundations of Biology Research Lab 1	
2018 SU	BIOSC 0160 Foundations of Biology II	
2018 SP	BIOSC 1000 Biochemistry	
2017 FA	BIOSC 0150 Foundations of Biology I	
2017 SU	BIOSC 1610 Conservation Biology	
2017	Inquiry Based Learning Workshop, co-organizer/developer	
2017 SP	BIOSC 0150 Foundations of Biology I Diversity Workshops	
2016 FA	BIOSC 0150 Foundations of Biology I Diversity Workshops	
2016 SU 2016 SP	Howard Hughes Medical Institute summer workshop BIOSC 0350 Genetics	
2016 SF 2015 FA	BIOSC 0350 Genetics	
2015 FA 2015 SU	Howard Hughes Medical Institute summer workshop	
2015 SP	BIOSC 0350 Genetics TA	
2014 FA	BIOSC 0350 Genetics TA	
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2022-present	IRACDA Fellow Teaching Mentor Role: Mentored NIH IRACDA Postdoctoral Fellows through teaching	
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2022-present	IRACDA Fellow Teaching Mentor
	Role: Mentored NIH IRACDA Postdoctoral Fellows through teaching
	independent courses and conducting education research
2020-2022	Graduate research mentor
	Role: Co-mentorship of thesis track Masters Student at the University of Kansas,
	assisted in project design, implementation, navigating the literature
2016-2017	Ivy McManus Diversity Fellow
	Role: Mentorship of 2 post-baccalaureate students and 109 undergraduates from
	underrepresented groups through individual meetings and weekly workshops
2016-2017	Biological Sciences Teaching Assistant/Fellow Mentor
	Role: Mentorship of 11 graduate student TAs
2015-2018	Reaching inside Your Soul for Excellence Coach

Role: Coached 27 students categorized as underrepresented in science with an aim

for academic success and retention

2013-present Undergraduate research mentor

Role: Mentored 14 undergraduates through research projects, including 7 women

and two students belonging to an underrepresented demographic.

PROFESSIONAL SERVICE ACTIVITIES

First Year Faculty Program co-chair
Reviewer, Governors State University Student Foundation Scholarships
Academic Program Review Committee Member, Governors State University
CAS Dean Search Committee Member, Governors State University
Biology Education Faculty Search Committee Member, Governors State
University
Reviewer, NSF GRFP
Poster Judge, UIC College of Pharmacy Research Day
Society for the Study of Evolution Graduate Student Advisory Council
Role: Disseminate and promote research conducted by early career researchers
through society Twitter account and newsletter, organize graduate events at
annual Evolution conference, review graduate research grant proposals, and
provide resources to the general graduate community.
Three Rivers Evolution Event co-chair, Pittsburgh, PA
Role: Established and oversaw subcommittees for the second annual conference,
arranged keynote speaker address, and organized mentorship activities for
undergraduates and early career researchers.
Three Rivers Evolution Event co-founder and organizer, Pittsburgh, PA
Role: Designed, implemented and established funding for a free, regional one-day
evolution conference which brought together over 160 scientists in its inaugural

PUBLIC SERVICE ACTIVITIES

year.

2022-2023	Annual monarch migration tagging at the Nate, University Park, IL
2017	Absolute Truth, Steel City Improv Theater, Pittsburgh, PA
2015-2016	ASSEMBLE summer camp and after school program design and implementation
2015	Pitt Make a Difference Day Volunteer
2014	SciTech Days Presenter, Carnegie Science Center. Pittsburgh, PA
2014	Girty's Run Watershed Citizen's Summit. Pittsburgh, PA.
2013	SciTech Days Presenter, Carnegie Science Center. Pittsburgh, PA.

OTHER SCIENTIFIC PARTICIPATION

2022	Evolution 2022. Virtual
2020	Arthropod Genomics Conference, virtual.
2020	IDeA National Resource for Proteomics Workshop, Little Rock, AR.
2020	Great Plains Genetic Conflict Meeting, Lawrence, KS.
2020	Society for Integrative and Comparative Biology, Austin, TX.
2019	Evolution 2019. Providence, RI.
2019	Biology of Spermatozoa conference. Nynäshamn, Sweden.

2018	Evolution 2018. Montpellier, France.
2017	Biological Sciences Graduate Student Organization Secretary
2017	Society for Integrative and Comparative Biology, New Orleans, LA.
2016	Evolution 2016. Austin, TX
2016	Society for Integrative and Comparative Biology, Portland, OR.
2015	Phylogenetics workshop, Society of Systematic Biologists, Guarujá, Brazil.
2015	Evolution 2015. Guarujá, Brazil.
2014	International Society for Behavioral Ecologists meeting. New York, NY.
2013-2014	Graduate Student Organization Invited Speaker Committee
2013	CLC Genomics Workbench Workshop. University of Pittsburgh, PA.
2013	American Genetics Association Annual Symposium. Ithaca, NY.
2013	Non-Model Organism Genomics Workshop, American Genetics Association.
	Ithaca, NY
2012	Biological Summer Undergraduate Research Experience, Colorado State
	University.

SOCIETY MEMBERSHIPS

American Society of Naturalists
Entomological Society of America
Sigma Delta Epsilon (Graduate Women in Science)
Society for Advancing Chicanos/Hispanics and Native Americans in Science
Society for Integrative and Comparative Biology
Society for Molecular Biology and Evolution
Society for the Study of Evolution

PEER REVIEWER

Annals of the Entomological Society of America Behavioral Ecology Comparative Physiology A Evolution Integrative and Comparative Biology Insect Science PeerJ Scientific Reports