AMELIA R.I. LINDSEY, PH.D.

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Education

 PhD, University of California, Riverside, CA, USA. Entomology Advisor: Richard Stouthamer Molecular Entomology, Evolution, Bioinformatics. Dissertation Title: "Genomic and Evolutionary Conseque Wolbachia-Mediated Parthenogenesis in Trichogramma 	ences of
BA <i>cum laude</i> , San José State University, San José, CA, USA Concentration: Preparation for Teaching	. Biology May 2011
Academic Appointments	
University of Minnesota, Twin Cities, Saint Paul, MN, USA Assistant Professor, Department of Entomology Member, Microbial and Plant Genomics Institute Graduate Faculty Appointment, Entomology Graduate Faculty Appointment, Plant & Microbial Biology	July 7 2020 – present July 7 2020 – present July 7 2020 – present December 3 2020 – present
Other Professional Positions	
 Indiana University Bloomington, Indiana, USA Postdoctoral Scholar, Department of Biology Advisors: Irene Newton and Richard Hardy Functional genomics of <i>Wolbachia</i>-mediated pathogen blocking and host-interaction. 	July 2017 – July 2020
 San José State University, San José, CA, USA Undergraduate Researcher, Department of Biology Advisor: Stephanie Trewhitt Managing skunk collection and databasing specimen information Goshawk pellet content identification for endangered species conservation 	January 2011 – May 2011
 San José State University, San José, CA, USA Undergraduate Researcher, Department of Biology Advisor: Cleber Ouverney Evolution of host-association in SR1, a phylum of uncultivable bacteria found in diverse environments, including the human oral cavity and mineral springs. 	November 2010 – August 2012

Current Membership in Professional Organizations

Society for Molecular Biology and Evolution International Symbiosis Society American Society for Microbiology Entomological Society of America (ESA) March 2016 – present July 2014 – present March 2011 – present February 2011 – present

HONORS AND RECOGNITION

University of Minnesota

Exemplary Faculty Member Borealis Award	April 2022
Faculty Award for Mentorship in Entomology	July 2021

Professional Societies

Excellence in Early Career Award (North Central Branch, ESA)March 2022Early Career Professional Recognition Award (ESANovember 2021

Selected Honors Prior to Professorship

IUB Provost's Travel Award for Women in Science (IU)	January 2018, 2019
Midwest Microbial Pathogenesis Conference Postdoc Award	August 2017
John Henry Comstock Ph.D. Student Award (ESA)	April 2017
1 st Place Pacific Branch Entomology Games* (ESA)	April 2017
van den Bosch Scholarship in Biological Control (\$15,000)	July 2016
Young Investigator Travel Award (Society for Molecular Biology & Evolution)) \$2000 July 2016
Tejal Reddy Endowed Graduate Scholarship (UCR)	April 2016
Graduate Dean's Dissertation Research Grant (UCR)	February 2016
Graduate Research Mentorship Fellowship (UCR)	September 2015
van den Bosch Scholarship in Biological Control (\$10,000)	July 2015
Outstanding Teaching Assistant (UCR)	May 2014
Dr. Mir S. Mulla & Leila Mulla Scholarship (UCR) \$6,000	May 2014
1 st Place Pacific Branch Entomology Games* (ESA)	April 2014
1 st Place National Entomology* Games (ESA)	November 2013
Chancellor's Distinguished Fellowship (UCR)	September 2012
President's Scholar (San José State University)	April 2011
Dean's Scholar (San José State University)	April 2010
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*At the time known as "Linnaean Games"

Honors Awarded to Students

Sarah Lisak: 1 st place presentation award, ESA	November 2024
Laura Fricke: 2 nd place presentation award, ESA	November 2024
Pablo Stilwell: 2 nd place undergraduate presentation award, ESA	November 2024
Sarah Lisak: Honorable Mention, National Science Foundation Graduate	April 2024
Research Fellowship (NSF GRFP)	
Sarah Lisak: 3 rd place presentation award, North Central Branch ESA	March 2024
Megan Jones: Marion Brooks-Wallace Summer Fellowship, UMN	April 2024
Megan Jones: Morris and Elaine Soffer-Rockstein PhD Scholarship, UMN	April 2024
Pablo Stilwell: Hodson Memorial Undergraduate Scholarship, UMN	February 2024

<i>Gloria Melotto</i> : P-IE Master's Student Achievement Award, ESA <i>Pablo Stilwell</i> : 1 st place undergraduate presentation award, ESA <i>Gloria Melotto</i> : 1 st place poster award, ESA <i>Laura Fricke</i> : USDA NIFA Predoctoral Fellowship: \$180,000 <i>Laura Fricke</i> : Graduate student scholarship, <i>Wolbachia</i> 2023 Meeting <i>Megan Jones</i> : Graduate student scholarship, <i>Wolbachia</i> 2023 Meeting	November 2023 November 2023 November 2023 2023-2026 June 2023 June 2023
Megan Jones: Sping and Ying-ngoh Lin Fellowship, UMN Entomology	2023-2024
Laura Fricke: Interdisciplinary Doctoral Fellowship, UMN	2023-2024
Laura Fricke: Morris and Elaine Soffer-Rockstein PhD Scholarship, UMN	May 2022
Gloria Melotto: Morris and Elaine Soffer-Rockstein MS Scholarship, UMN	May 2022
Tina Lozano: Lugger-Radcliffe Summer Fellowship, UMN	May 2022
Megan Jones: Honorable Mention, National Science Foundation Graduate Research Fellowship (NSF GRFP)	April 2022
Laura Fricke: 2 nd place presentation award, ESA	November 2022
Sarah Lisak: 1 st place presentation award, ESA	November 2022
Tina Lozano: 2 nd place presentation award, ESA	November 2022
Tina Lozano: Doctoral Dissertation Fellowship, UMN	2022-2023
Tina Lozano: 3 rd place presentation award, North Central Branch ESA	March 2022
Gloria Melotto: 2 nd place presentation award, North Central Branch ESA	March 2022
Laura Fricke: Marion Brooks-Wallace Scholarship, UMN	December 2021
Megan Jones: Excellence in Entomology Fellowship, UMN	2021-2022
Laura Fricke: Honorable Mention, National Science Foundation Graduate Research Fellowship (NSF GRFP)	April 2021
Laura Fricke: DOVE 2nd Year Match Fellowship, CFANS UMN	2021-2022
Laura Fricke: Diversity of Views and Experiences (DOVE) Fellowship, UMN	2020-2021

RESEARCH AND SCHOLARSHIP

Grants, Contracts, Awards: External Sources

Award: Mechanisms facilitating microbial co-inheritance

Principal Investigator: Lindsey, Amelia RI Status: Accepted, active (R21AI175957) Sponsoring Organization: National Institutes of Health (NIH): National Institute of Allergy and Infectious Diseases (NIAID) Award Dates: 2023/11/09-2025/10/31 Direct Amount: \$275,000; Indirect Amount: \$140,426 Funded Amount: **\$415,426**

Award: Causes and consequences of microbe-mediated asexuality

Principal Investigator: Lindsey, Amelia RI Status: Accepted, active (R35GM150991) Sponsoring Organization: National Institutes of Health (NIH): National Institute of General Medical Sciences (NIGMS) Award Dates: 2023/09/01-2028/07/31 Direct Amount: \$1,250,000; Indirect Amount: \$634,634 Funded Amount: **\$1,884,634**

Award: Identifying factors influencing reproductive physiology in biological control agents

Principal Investigator: Fricke, Laura C (Principal); Lindsey, Amelia RI (Co-I) Status: Accepted, active (2023-67034-40496) Sponsoring Organization: USDA National Institute of Food & Agriculture Award Dates: 2023/06/01-2026/05/31 Direct Amount: \$180,000; Indirect Amount: *no indirect* Funded Amount: **\$180,000**

Award: Mob4 activity and dysfunction in Alzheimer's Disease

Principal Investigator: Neisch, Amanda Status: Accepted, active (R21AG078690) Sponsoring Organization: National Institutes of Health (NIH): National Institute on Aging (NIA) Award Dates: 2023/07/01-2025/03/31 Direct Amount: \$275,000; Indirect Amount: \$151,250 Funded Amount: **\$426,250**

Award: Evaluating biological control for sustainable management of the soybean gall midge, a new pest of soybean in the North Central Region

Principal Investigator: PI: Koch, Robert L; Co-I: Lindsey, Amelia RI Status: Accepted, active (LNC22-464) Sponsoring Organization: North Central Region: Sustainable Agriculture Research & Education (NCR-SARE) Award Dates: 2023/06/01-2026/05/31 Direct Amount: \$217,893 [\$173,682 to Koch & Lindsey]; Indirect Amount: \$21,789 Funded Amount: **\$239,682**

Award: Biological control for soybean gall midge, a new pest of soybean in Minnesota

Principal Investigator: PI: Koch, Robert L; Co-I: Lindsey, Amelia RI Status: Accepted, active (GPC-I_PCCUM) Sponsoring Organization: Minnesota Department of Agriculture AGRI Crop Research Award Dates: 2022/06/01-2025/05/31 Direct Amount: \$212,979; Indirect Amount: *no indirect* Funded Amount: **\$212,979**

Other Grants, Awards, Gifts, or Endowment Earnings: Internal Sources

Award: The mechanistic basis of co-infection dynamics in *Wolbachia* Project Investigators: Lindsey, Amelia RI Status: Accepted, award completed Sponsoring Organization: University of Minnesota, CFANS, Seed & Bridge Grant Program Award Dates: 2022/09/01-2023/08/31 Funded Amount: **\$60,000**

Award: Evaluating biological control for soybean gall midge, a new pest of soybean in Minnesota

Project Investigators: PI: Koch, Robert L; Co-I: Lindsey, Amelia RI Status: Accepted, award completed Sponsoring Organization: University of Minnesota Rapid Agricultural Response Fund Award Dates: 2021/06/01 – 2023/12/31 Funded Amount: **\$137,370**

Award: Developing functional genomics tools to improve biological control

Project Investigators: Lindsey, Amelia RI Status: Accepted, award completed Sponsoring Organization: University of Minnesota New Faculty Grants-In-Aid Award Dates: 2021/01/01 – 2022/06/30 Funded Amount: **\$44,989**

Funding Prior to Assistant Professorship

Award: Irreversible asexuality in biological control: Genomic consequences of *Wolbachia*-mediated parthenogenesis in *Trichogramma* wasps Project Investigators: Lindsey, Amelia RI & Stouthamer R Status: Accepted, award completed (2016-67011-24778) Sponsoring Organization: USDA NIFA Pre-Doctoral Fellowship Award Dates: 2016/02/16-2028/02/15 Funded Amount: **\$70,277**

Award: Evolutionary strategies for adaptation in *Wolbachia*, a reproductive symbiont of arthropods

Project Investigators: Lindsey, Amelia RI & Stouthamer R Status: Accepted, award completed (DEB 1501227) Sponsoring Organization: National Science Foundation (NSF): Doctoral Dissertation Improvement Grant (DDIG) Award Dates: 2015/06/01-2027/05/31 Funded Amount: **\$18,989**

Publications

*Lindsey mentee; [%]Corresponding author; [‡]Co-first authorship equal contribution

Peer-Reviewed Journal Articles

- 24) von Gries SA*, Lindsey ARI, Koch RL. (2025). Functional response and prey preferences of *Pterostichus melanarius* adults on *Resseliella maxima larvae*. *Biological Control*. 200(105679). doi: 10.1016/j.biocontrol.2024.105679
- 23) Holt JR, Cavivhiolli de Oliveira N, Rosa C, Medina RF, Malacrinò A, Lindsey ARI. (2024) Insect-microbe interactions and their influence on organisms and ecosystems. *Ecology* and Evolution. 14(7). doi: 10.1002/ece3.11699
- 22) Fricke LC* and Lindsey ARI[%]. (2024) Identification of parthenogenesis-inducing effector proteins in *Wolbachia*. *Genome Biology and Evolution*. 16(4), evae036. doi: 10.1093/gbe/evae036
- 21) Lisak SC*, Shanovich HN*, Lindsey ARI, Aukema BH. (2024) The *Polydrusus* weevils of the US and Canada: identification and insights into the ecology of two nonindigenous species in hazel (*Corylus* spp.). *Canadian Entomologist. 156*, e10. doi: 10.4039/tce.2024.7
- 20) Watson KJ, Bromley RE, Sparklin BC, Gasser M, Bhattacharya T*, Lebov JF, Tyson T, Dai N, Teigen LE, Graf KT, Michalski M, Bruno VM, Lindsey ARI, Hardy RW, Newton ILG, Dunning Hotopp JCD. (2024) Common analysis of direct RNA sequencinG CUrrently leads to misidentification of m5C at GCU motifs. *Life Science Alliance*. 7(2). doi: 10.26508/lsa.202302201
- 19) Melotto G*, Potter BD, Lindsey ARI, Koch RL. (2023) Arthropod predator community associated with soybean gall midge, *Resseliella maxima* (Diptera: Cecidomyiidae) in

Minnesotan soybean fields. *Environmental Entomology*. 52(6), 990-997. doi:10.1093/ee/nvad091

- 18) Melotto G*, Potter BD, Koch RL[%], Lindsey ARI[%]. (2023) Spatial and temporal dynamics of soybean gall midge (*Resseliella maxima*) parasitism by *Synopeas maximum*. *Pest Management Science*. 79(12), 5096-5105. doi: 10.1002/ps.7711
- 17) Melotto G*, Awad J, Talamas E, Koch RL, Lindsey ARI[%]. (2023) Synopeas maximum Awad & Talamas (Hymenoptera, Platygastridae): a new species of parasitoid associated with soybean gall midge, *Resseliella maxima* Gagné (Diptera, Cecidomyiidae). Journal of Hymenoptera Research. 96, 181-205. doi:10.3897/jhr.96.102865
- 16) Melotto G*, Jones MW*, Bosley K, Flack N, Frank L, Jacobson E, Kipp E, Nelson S, Ramirez M*, Walls C, Koch RL, Lindsey ARI[%], Faulk C[%]. (2023) The Genome of the Soybean Gall Midge (*Resseliella maxima*). *G3: Genes, Genomes, Genetics*. *13*(4), jkad046. doi:10.1093/g3journal/jkad046
- 15) Perish P, Shanovich HN*, Koch AN, Lindsey ARI, Aukema BH. (2023) The hazel stem borer, *Agrilus pseudocoryli*, (Coleoptera: Buprestidae) as a pest of hybrid hazelnuts. *Economic Entomology*. 116(2), 496-504. doi:10.1093/jee/toad023
- 14) Jones MW*, Fricke LC*, Thorpe CJ*, Vander Esch LO*, Lindsey ARI[%]. (2022) Infection dynamics of co-transmitted reproductive symbionts are mediated by sex, tissue, and development. *Applied and Environmental Microbiology*. 88(13), e00529-22. doi:10.1128/aem.00529-22
- 13) Lue CH, Buffington ML, Scheffer S, Lewis M, Elliott T, Lindsey ARI, Driskell A, Jandova A, Kimura M, Carton Y, Kula R, Schlenke T, Mateos M, Govind S, Varaldi J, Guerrieri E, Giorgini M, Xingeng W, Hoelmer K, Daane K, Abram P, Pardikes N, Brown J Thierry M, Poirié M, Goldstein P, Miller S, Tracey WD, Davis J, Jiggins F, Wertheim B, Lewis O, Leips J, Staniczenko P, Hrcek J. (2021) DROP: Molecular voucher database for identification of *Drosophila* parasitoids. *Molecular Ecology Resources*. 21(7), 2437-2454. doi: 10.1111/1755-0998.13435
- 12) Lindsey ARI, Bhattacharya TB*, Hardy RW, Newton ILG. *Wolbachia* and virus alter the host transcriptome at the interface of nucleotide metabolism pathways. (2021) *mBio.* 12(1), 10-1128. doi: 10.1128/mBio.03472-20
- Lindsey ARI[%]. (2020) Sensing, signaling, and secretion: A review and analysis of systems for regulating host interaction in *Wolbachia. GENES*. *11*(7), 813. doi:10.3390/genes11070813
- 10) Wu X^{*‡}, Lindsey ARI^{%,‡}, Chatterjee P, Werren JH, Stouthamer R, Yi SV[%]. (2020) Distinct epigenomic and transcriptomic modifications associated with *Wolbachia*-mediated asexuality. *PLoS Pathogens*. *16*(3), e1008397. doi:10.1371/journal.ppat.1008397
- 9) Zhang J, Lindsey ARI, Peters R, Heraty JM, Hopper KR, Werren JH, Martinson EO, Woolley JB, Yoder MJ, Krogmann L. (2020) Conflicting signal in transcriptomic markers leads to a poorly resolved backbone phylogeny of chalcidoid wasps. *Systematic Entomology*. 45(4), 783-802. doi: 10.1111/syen.12427
- 8) Thomas GWC, Dohmen E, Hughes DST, Murali SC, Poelchau M, Glastad K, Anstead CA, Ayoub NA, Batterham P, Bellair M, Binford GJ, Chao H, Chen YH, Childers C, Dinh H, Doddapaneni H, Duan JJ, Dugan S, Esposito LA, Friedrich M, Garb J, Gasser RBB, Goodisman MAD, Gundersen-Rindal DE, Han Y, Handler AM, Hatakeyama M, Hering L, Hunter WB, Ioannidis P, Jayaseelan JC, Kalra D, Khila A, Korhonen PK, Lee CE, Lee SL, Li Y, Lindsey ARI, Mayer G, McGregor AP, McKenna DD, Misof B, Munidasa M, Munoz-Torres M, Muzny DM, Niehuis O, Osuji-Lacy N, Palli SR, Panfilio KA, Pechmann M, Perry T, Peters RS, Poynton HC, Prpic NM, Qu J, Rotenberg D, Schal C, Schoville SD, Scully ED, Skinner E, Sloan DB, Stouthamer R, Strand MR, Szucsich NU, Wijeratne A, Young ND, Zattara EE, Benoit JB, Zdobnov EM, Pfrender ME, Hackett KJ, Werren JH, Worley KC, Gibbs RA, Chipman AD, Waterhouse RM, Bornberg-Bauer E, Hahn MW, Richards S.

(2020) Gene content evolution in the Arthropods. *Genome Biology. 21, 1-14.* doi:10.1186/s13059-019-1925-7

- 7) Ebrahimi V, Ahouri A, Rugman-Jones PF, Lindsey ARI, Javan-Nikkhah M, Stouthamer R. (2019) Using Parthenogenesis Inducing *Wolbachia* for the selection of optimal lines of the egg parasitoid *Trichogramma pretiosum* for use in biocontrol. *Entomologia Experimentalis* et Applicata. 167(3), 241-251. doi:10.1111/eea.12755
- 6) Lindsey ARI[%], Kelkar YD, Wu X, Sun D, Martinson EO, Yan Z, Rugman-Jones PF, Hughes DST, Murali SC, Qu J, Dugan S, Lee SL, Chao H, Dinh H, Han Y, Doddapaneni HV, Worley KC, Muzny DM, Ye G, Gibbs RA, Richards S, Yi SV, Stouthamer R, Werren JH. (2018) Comparative genomics of the miniature wasp and pest control agent *Trichogramma pretiosum. BMC Biology. 16, 1-20.* doi:10.1186/s12915-018-0520-9.
- 5) Lindsey ARI[‡], Bhattacharya T[‡], Newton ILG, Hardy RW. (2018) Conflict in the intracellular lives of endosymbionts and viruses: a mechanistic look at *Wolbachia*-mediated pathogen blocking. *Viruses*. *10*(4), 141. doi:10.3390/v10040141
- 4) Lindsey ARI, Rice DW, Bordenstein SR, Brooks AW, Bordenstein SR, Newton ILG. (2018) Evolutionary genetics of cytoplasmic incompatibility genes *cifA* and *cifB* in Prophage WO of Wolbachia. Genome Biology and Evolution. 10(2), 434-451. doi:10.1093/gbe/evy012
- Lindsey ARI, Stouthamer R. (2017) The effects of outbreeding on a parasitoid wasp fixed for infection with a parthenogenesis-inducing *Wolbachia* symbiont. *Heredity*. 119(6), 411-417. doi:10.1038/hdy.2017.53
- 2) Lindsey ARI, Stouthamer R. (2017) Penetrance of symbiont-mediated parthenogenesis is driven by reproductive rate in a parasitoid wasp. *PeerJ*. 5, e3505. doi:10.7717/peerj.3505
- Lindsey ARI, Werren JH, Richards S, Stouthamer R. (2016) Comparative genomics of a parthenogenesis-inducing *Wolbachia* symbiont. *G3: Genes, Genomes, Genetics*. 6(7), 2113-2123. doi: 10.1534/g3.116.028449

Journal Articles, Editor Reviewed: Responses and Invited Commentaries

- 2) Lindsey ARI and Newton ILG. (2019) Some like it HOT: Horizontal operon transfer. *Cell*. *176*(6), 1243-1245. doi:10.1016/j.cell.2019.02.007
- Lindsey ARI[%], Bordenstein SR, Newton ILG, Rasgon JL. (2016) Wolbachia pipientis should not be split into multiple species: A response to Ramírez-Puebla et al., "Species in Wolbachia? Proposal for the designation of 'Candidatus Wolbachia bourtzisii', 'Candidatus Wolbachia onchocercicola', 'Candidatus Wolbachia blaxteri', 'Candidatus Wolbachia brugii', 'Candidatus Wolbachia taylori', 'Candidatus Wolbachia collembolicola' and 'Candidatus Wolbachia multihospitum' for the different species within Wolbachia supergroups. Systematic and Applied Microbiology. 39(3), 220-222. doi:10.1016/j.syapm.2016.03.001.

Book Chapters

- Hopper KR, Lindsey ARI, Werren JH (2025). Genetics and Genomics. *Chalcidoidea of the World*, CABI, Wallingford, UK. Chapter 66 (pp. 746-768). Heraty JM and Woolley JB (eds). doi: 10.1079/9781800623545.0066 [Peer reviewed]
- Burks RA, Pinto JD, Lindsey ARI. (2025). Trichogrammatidae. Chalcidoidea of the World, CABI, Wallingford, UK. Chapter 60 (pp. 648–659). Heraty JM and Woolley JB (eds). doi: 10.1079/9781800623545.0060 [Peer reviewed]
- Fricke LC* and Lindsey ARI[%]. Examining Wolbachia-induced parthenogenesis in Hymenoptera. (2024) Invited chapter for Methods in Molecular Biology—Wolbachia (Springer Methods), edited by Ann Fallon. doi:10.1007/978-1-0716-3553-7_

Preprints and Articles in Review

- 4) Lindsey ARI[%], Lue CH, Davis JS, Borjon LJ, Mauthner SE, Fricke LC*, Eads L*, Murphy M, Drown M, Faulk C, Buffington ML, Tracey DW[%]. (2025). Genomics and reproductive biology of *Leptopilina malgretoutensis* Buffington, Lue, Davis & Tracey sp. nov. (Hymenoptera: Figitidae): An asexual parasitoid of Caribbean *Drosophila*. *BioRxiv*. doi: 10.1101/2025.03.28.645512. In review.
- 3) Fricke LC*, Villalta MD*, Lindsey ARI[%]. "Endosymbionts interacting with sex determination genes and processes" Invited Submission for *Current Opinion in Insect Science*, special section on Insect sex determination and sexual differentiation (2025), edited by Eveline Verhulst & Richard Cordaux. In review.
- Culotta J* & Lindsey ARI[%]. (2024) A reference genome for *Trichogramma kaykai*: A tiny desert-dwelling parasitoid wasp with competing sex-ratio distorters. *BioRxiv*. doi: 10.1101/2024.11.22.624848. In review.
- Lindsey ARI[%], Tennessen JM, Gelaw MA^{*}, Jones MW^{*}, Parish AJ^{*}, Newton ILG, Nemkov T, D'Alessandro A, Rai M, Stark N^{*}. (2024) The intracellular symbiont *Wolbachia* alters *Drosophila* development and metabolism to buffer against nutritional stress. BioRxiv:doi:10.1101/2023.01.20.524972. In review.

Presentations, Posters, and Exhibits

Invited Award Recipient Lectures and Presentations

- 4) Lindsey ARI. "Parasite-mediated losses of sex." Biology Department Seminar Series, Williams College. March 4, 2022. Host: Allison Gill (Selected as a "Class of 1960s Scholar" seminar speaker, an endowed program at Williams College: <u>https://biology.williams.edu/the-major/class-of-1960s-scholars/</u>).
- Lindsey ARI. "Parasite-mediated losses of sex in parasitoid wasps." Entomological Society of America Annual Meeting. Denver, CO. Oct. 31 – Nov. 3, 2021. Symposium: "Early Career Professional Recognition Symposium." (Award recipient speaker).
- Lindsey ARI. "Evolutionary consequences of *Wolbachia*-mediated parthenogenesis in *Trichogramma* wasps" Pacific Branch Meeting of the Entomological Society of America. Portland, OR. April 2 – 5, 2017. (Comstock award-recipient lecture).
- Lindsey ARI, Werren JH, Richards S, and Stouthamer R. "Genome evolution of a parthenogenesis-inducing *Wolbachia* symbiont" Society for Molecular Biology and Evolution Conference 2016. Gold Coast, Queensland, Australia. July 3 – 7, 2016. (Young Investigator Travel award).

Invited Presentations at Professional Meetings, Conferences, & Departmental Seminars

- 33) Lindsey ARI "Mechanisms and evolutionary consequences of symbiont-mediated parthenogenesis" Entomology Department Seminar Series, University of Georgia. January 13th, 2025. Host: Michael Strand & Gaelen Burke.
- 32) Lindsey ARI "Wolbachia modulates mitosis and sex determination to induce parthenogenesis" Entomological Society of America Annual Meeting. Phoenix, AZ. Nov. 10 Nov. 13, 2024. Symposium: "A menagerie of arthropod symbioses" Organizers: Alison Ravenscraft, Molly Hunter, Einat Zchori-Fein.
- 32) Lindsey ARI "Symbiosis and (A)Sex: Microbe-mediated transitions in insect reproduction". Tenure and Promotion Seminar. Entomology Department Seminar Series, University of Minnesota. October 1st, 2024.
- 31) Lindsey ARI "Navigating development and metabolism as an intracellular reproductive symbiont" XXVII International Congress of Entomology (ICE2024). Kyoto, Japan, Aug.

25-30, 2024. Symposium: "How do insects evolve to manage symbioses with microbes?" Organizers: Allison Hansen, Gordon Bennett, and Minoru Moriyama.

- 30) Lindsey ARI. "Mechanisms of symbiont-mediated asexual reproduction". Genome, Cell, and Developmental Biology Department Seminar Series, Indiana University Bloomington. March 5th, 2024. Host: Irene Newton.
- 29) Lindsey ARI. "Mechanisms of symbiont-mediated asexual reproduction". Molecular, Cell, and Developmental Biology Department Seminar Series, University of Illinois Chicago. Feb. 20th, 2024. Host: Jeremy Lynch.
- 28) Lindsey ARI. "Insect symbioses and *Wolbachia* mediated asexual reproduction" Joint Seminar organized by the UMN Undergraduate Insect Club and the UMN Undergraduate Plant and Microbial Biology Club. Feb. 8th, 2024.
- 27) Lindsey ARI. "Mechanisms of symbiont-mediated asexual reproduction". Carnegie Institute. Nov. 13th, 2023. Host: Will Ludington.
- 26) Lindsey ARI. "Mechanisms of symbiont-mediated asexual reproduction". Biology Department Seminar Series, University of Iowa. Aug. 25th, 2023. Host: Andrew Forbes.
- 25) Lindsey ARI. "Using model systems for defining mechanisms of diverse Wolbachia-insect symbioses" Molecular and Cell Biology of Symbiosis Course at Marine Biological Labs Woods Hole Invited Lecturer. May 14th, 2023. Course Instructors: Will Ludington and Nichole Broderick. Course Director: Philip Cleves.
- 24) Lindsey ARI. "Microbe-mediated asexual reproduction." Distinguished Lectures in Microbiology Series, Department of Bacteriology at the University of Wisconsin-Madison. April 13th, 2023. Host: Kerri Coon.
- 23) Lindsey ARI. "*Wolbachia* is a nutritional symbiont in *Drosophila*" Spotlight on Rickettsia Webinar. March 22nd, 2023. Host: Dana Shaw.
- 22) Lindsey ARI. "Microbe-mediated losses of sex in beneficial insects" Entomology and Plant Pathology Department Seminar Series, University of Arkansas. March 7th, 2023. Host: Emily McDermott.
- 21) Lindsey ARI. "Causes and consequences of lost sex" Department of Biology, University of Texas Arlington. February 16th, 2023. Host: Todd Castoe.
- 20) Lindsey ARI. "Symbiosis vs. Sex: Asexual reproduction by microbe-mediated mitotic failure" Fred Hutchinson Cancer Center. November 17, 2022. Host: Harmit Malik.
- 19) Lindsey ARI. "Metabolic interactions underlying symbiont spread and pathogen blocking" Pennsylvania State University's Center for Infectious Disease Dynamics Seminar Series. October 20, 2022. Host: Matthew Ferrari.
- 18) Lindsey ARI. "Microbe-mediated losses of sex in insects" Entomology Department Seminar Series, Purdue University. August 31, 2022. Host: Allison Bistline-East.
- 17) Lindsey ARI. "Microbe-mediated asexuality." Microbial and Plant Genomics Institute Seminar Series, University of Minnesota. April. 21, 2022. Host: Brett Barney.
- 16) Lindsey ARI. "Symbiont-mediated losses of sex in parasitoid wasps." Entomology Department Seminar Series, University of Wisconsin Madison. April 8, 2022. Host: Amy Trowbridge.
- 15) Lindsey ARI. "Parasite-mediated losses of sex." Ecology, Evolution, and Behavior Department Seminar Series, University of Minnesota. Feb. 2, 2022. Host: Beatriz Baselga-Cervera.
- 14) Lindsey ARI. "The evolution of my evolution research: nearing one decade of work on *Wolbachia*-insect interactions." Pacific Branch Meeting of the Entomological Society of America. Virtual due to COVID-19. April 5 7, 2021. Symposium: "PBESA Comstock Winners: Where are they now?" Organizer: Jacqueline Serrano.
- 13) Lindsey ARI. "Functional genomics of a bacterial symbiont that alters insect reproduction and vector competence." Department of Animal Science Seminar Series, University of Minnesota. March 8th, 2021. Host: Andres Gomez.

- 12) Lindsey ARI. "Functional genomics of microbe mediated asexuality in *Trichogramma* wasps." Entomological Society of America Annual Meeting. Virtual. Nov. 15 18, 2020. Symposium: "Microbial Interactions and Their Influence on Organisms and Ecosystems." Organizers: Jocelyn Holt, Antonino Malacrinò, and Raul F. Medina.
- 11) Lindsey ARI. "Mechanisms and consequences of host association in insect-*Wolbachia* interactions." Plant and Microbial Biology Department Seminar Series, University of Minnesota. Oct. 20, 2020. Host: Katie Fixen.
- 10) Lindsey ARI. "Functional genomics of parthenogenesis and symbiosis in *Trichogramma* wasps." *Nasonia* 2020. Claremont, CA. June 3-5, 2020. *Canceled due to COVID-19
- Lindsey ARI. "Interactive effects on insect metabolism contribute to Wolbachia-mediated virus inhibition." Entomology Department Seminar Series, University of California Riverside. April 6, 2020. *Seminar given remotely due to COVID-19
- 8) Lindsey ARI. "Functional genomics of insect-*Wolbachia* interactions." Entomology Department, University of Minnesota. July 8, 2019. Host: Tim Kurtti.
- 7) Lindsey ARI, Wu X, Chatterjee P, Werren JH, Stouthamer S, and Yi SV. "Genomic signatures of the transition to *Wolbachia*-mediated asexuality" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 11 – 14, 2018. Symposium: "Insect Microbiomes: Traversing Disciplines to Understand and Manage Helpful and Harmful Hexapods." Organizers: Molly Hunter and Jake Russell.
- 6) Lindsey ARI. "Mechanisms and consequences of horizontal transfer and co-evolution in Wolbachia." Evolutionary and Population Genetics Chalk Talk Series. University of Montana, Missoula, MT. Aug. 16, 2018. Hosts: Brandon Cooper and John McCutcheon.
- Lindsey ARI. "Context matters: Genetic and environmental factors mediate the penetrance of symbiont phenotypes" UCR Entomology Department Seminar Series. Riverside, CA. May 1, 2017. Host: Hollis Woodard.
- Lindsey ARI. "Genomic and phenotypic consequences of symbiont-mediated parthenogenesis" Microphiles Seminar. Indiana University, Bloomington, IN. Dec. 9th, 2016. Host: Irene Newton.
- 3) Lindsey ARI, Werren JH, Richards S, and Stouthamer R. "Genomics and adaptation in Wolbachia, an obligate reproductive parasite in *Trichogramma* wasps" XXV International Congress of Entomology. Orlando, FL. Sep. 25 – 30, 2016. Symposium: "Evolution and biology of Chalcidoidea: integrating genomics, fossils, microbiomes and natural history." Organizers: John Heraty, James Woolley, and Astrid Cruaud.
- 2) Lindsey ARI. "Genome evolution of a parthenogenesis-inducing *Wolbachia* symbiont" University of Rochester, Rochester, NY. March 31, 2016. Host: Jack Werren.
- Lindsey ARI. "UCR's entomology outreach program: an integrative approach to community engagement" Entomological Society of America Annual Meeting. Minneapolis, MN. Nov. 15 – 18, 2015. Symposium: "Games, Comics, and Social Media: Outreach Education in Entomology." Organizers: Carly Tribull, Morgan Jackson, and Derek Hennen.

Invited for Oral Presentation from Submitted Conference Abstracts

- 13) Lindsey ARI. "Causes and consequences of parthenogenesis induction." 12th *Wolbachia* Conference. Okinawa, Japan. April 13-19, 2025.
- 12) Lindsey ARI. "*Wolbachia* supports development and buffers against nutritional stress." 11th *Wolbachia* Conference. Orthodox Academy of Crete, Greece. June 11 16, 2023.
- 11) Lindsey ARI. "Microbe-mediated lost sex." Joint Congress of the International Symbiosis Society and Conference on Holobionts. July 25 – 29, 2022. Lyon, France.
- 10) Lindsey ARI. "Wolbachia is a nutritional mutualist." Conference on Beneficial Microbes. July 10 14, 2022. Madison, WI.
- 9) Lindsey ARI. "*Wolbachia* and virus alter the *Drosophila* transcriptome at the interface of nucleotide metabolism pathways." Midwest *Drosophila* Conference. Oct. 24, 2020.

- 8) Lindsey ARI and Newton ILG. "Wolbachia colonization affects insect nucleotide metabolism." ASM Microbe. Chicago, IL. June 18-22, 2020 *Canceled due to COVID-19
- 7) Lindsey ARI and Newton ILG. "Mechanisms of establishing symbiosis in *Wolbachia*." American Society for Rickettsiology Meeting. Santa Fe, NM. June 8-11, 2019.
- Lindsey ARI, Bhattacharya T, Newton ILG, and Hardy RW. "Determining the mechanism of Wolbachia-mediated pathogen blocking." International Symbiosis Society Congress. Corvallis, OR. July 15-20, 2018.
- Lindsey ARI, Sheehan KB, Martin M, and Newton ILG. "Mechanisms of establishing symbiosis in *Wolbachia*." 10th International *Wolbachia* Conference. Salem, MA. June 17 – 22, 2018.
- 4) Lindsey ARI, Werren JH, Richards S, and Stouthamer R. "Extensive protein-coding sequence truncations in the parthenogenesis-inducing *Wolbachia* strain infecting *Trichogramma pretiosum*" 9th International *Wolbachia* Conference. Lamington National Park, Queensland, Australia. June 28th – July 3rd, 2016 (3rd place award).
- Lindsey ARI and Stouthamer R. "Comparative genomics of Wolbachia: Evolution of genome content in a reproductive parasite" Southern California Evolutionary Genetics and Genomics Meeting. Riverside, CA. April 11th, 2015.
- Lindsey ARI and Stouthamer R. "Experimental evolution of Wolbachia in novel hosts" 8th International Wolbachia Conference. Innsbruck, Tyrol, Austria. June 6 – 11, 2014 (3rd place award).
- Lindsey ARI and Stouthamer R. "Experimental evolution of *Wolbachia* in recombinant hosts" Symbiosis Workshop. Sierra Nevada Research Institute, Wawona, Yosemite National Park, CA. May 3 – 4, 2014.

Contributed Presentations at Professional Meetings & Conferences

- 16) Lindsey ARI. "Causes and consequences of lost sex." (Poster) Ecological and Evolutionary Genomics Gordon Research Conference. Bryant University in Smithfield, RI. July 30 – Aug 4, 2023.
- 15) Lindsey ARI. "Beneficial Wolbachia infections modulate insect metabolism." (Talk) North Central Branch Meeting of the Entomological Society of America. Minneapolis, MN. Mar. 20 – 23, 2022.
- 14) Lindsey ARI. "Beneficial *Wolbachia* infections modulate fly metabolism" (Poster) MidWest Fly Meeting. Virtual. October 23-24, 2021.
- 13) Lindsey ARI, Hardy RW, Newton ILG. "*Wolbachia* dramatically alters the host transcriptome and metabolism, resulting in a muted response to viral infection." (Poster) Gordon Research Conference and Seminar on Animal Symbioses. West Dover, VT. June 15-21, 2019.
- 12) Lindsey ARI, Hardy RW, Newton ILG. "*Wolbachia* dramatically alters the host transcriptome and metabolism, resulting in a muted response to viral infection." (Poster) Purdue Microbiome Symposium. West Lafayette, IN. May 13-14, 2019.
- 11) Lindsey ARI and Stouthamer R. "Penetrance of Wolbachia-mediated parthenogenesis is driven by reproductive rate in a parasitoid wasp." (Talk) Entomological Society of America Annual Meeting. Denver, CO. Nov. 5 – 8, 2017. (1st place award).
- Lindsey ARI*, Wu X, Chatterjee P, Werren JH, Stouthamer S, and Yi SV. "Pathogenic parthenogenesis: Genome-wide consequences of symbiont-mediated asexuality." (Poster) Midwest Microbial Pathogenesis Conference 2017. Notre Dame, IN. Aug. 25 – 27, 2017. (Registration award).
- Lindsey ARI and Stouthamer R. "The effects of outbreeding on a parasitoid wasp infected with parthenogenesis-inducing *Wolbachia*" (Talk) Pacific Branch Meeting of the Entomological Society of America. Portland, OR. April 2 – 5, 2017. (2nd place award).

- Lindsey ARI and Stouthamer R. "Genomics and adaptation in *Wolbachia*, an obligate reproductive parasite in *Trichogramma* wasps" (Talk) Entomological Society of America Annual Meeting. Minneapolis, MN. Nov. 15 – 18, 2015 (1st place award).
- Lindsey ARI and Stouthamer R. "Comparative genomics of Wolbachia: Evolution of genome content in a reproductive parasite" (Poster) The 8th Congress of the International Symbiosis Society. Lisbon, Portugal. July 12 – 15, 2015.
- Lindsey ARI and Stouthamer R. "Functional adaptation of *Wolbachia* to novel hosts" (Talk) Entomological Society of America Annual Meeting. Portland, OR. Nov. 16 – 19, 2014. (1st place award).
- 5) De La Riva D, Kietzman P, Lindsey ARI, McDermott EG, Shogren C. "Outreach at UCR: Dynamic approaches to community science education" (Poster) Entomological Society of America Annual Meeting. Portland, OR. Nov. 16 – 19, 2014.
- Lindsey ARI and Stouthamer R. "Experimental evolution of *Wolbachia* in novel hosts" (Talk) Pacific Branch Meeting of the Entomological Society of America. Tucson, AZ. April 6 – 9, 2014 (Honorable mention award).
- Lindsey ARI and Stouthamer R. "Wolbachia's evolutionary strategies for adaptation to Trichogramma wasps" (Talk) Entomological Society of America Annual Meeting. Austin, TX. Nov. 10 – 13, 2013.
- Caldwell AC, Ghotra S, Lindsey ARI, Nystrom A, and Ouverney CC. "Host associated versus environmental SR1 bacteria" (Poster) American Society for Microbiology General Meeting. San Francisco, CA. June 16 – 19, 2012.
- Caldwell AC, Ghotra S, Lindsey ARI, Nystrom A, and Ouverney CC. "SR1 bacteria: A fresh look" (Poster) Northern California Branch Spring Meeting of the American Society for Microbiology. Pleasanton, CA. March 11 – 12, 2011 (1st place award).

Mentee's Presentations at Professional Meetings & Conferences (*presenter)

- 40) von Gries SC*, Lindsey ARI, Hodgson E, McMechan A, Koch RL. "Parasitism of soybean gall midge by two *Synopeas* species across the Upper Midwest" 2025 North Central Branch Meeting of the Entomological Society of America. April 12 16, 2025. Lincoln, NE.
- 39) Culotta JA* and Lindsey ARI. "Comparative genomics of parthenogenesis inducing Wolbachia in Trichogramma wasps." (Poster) 12th Wolbachia Conference. Okinawa, Japan. April 13-19, 2025.
- 38) Fricke LC* and Lindsey ARI. "Identifying host targets of parthenogenesis inducing genes." (Invited for talk from submitted abstracts) 12th Wolbachia Conference. Okinawa, Japan. April 13-19, 2025.
- 37) Jones MW* and Lindsey ARI. "A recipe for stable coinfection? Unique patterns of intracellular niche partitioning among stable *Wolbachia* coinfections." (Invited for talk from submitted abstracts) 12th *Wolbachia* Conference. Okinawa, Japan. April 13-19, 2025.
- 36) Awad J,* Talamas E, von Gries S, Melotto G, Koch RL, Lindsey ARI. "Harnessing ecosystem services from dark taxa: Synopeas (Hymenoptera: Platygastridae) and the soybean gall midge Resseliella maxima (Diptera: Cecidomyiidae)" 2025 International Branch Meeting of the Entomological Society of America. April 7 – 9, 2025. Virtual Meeting.
- 35) Lisak SC*, Lindsey ARI, Hodgson E, McMechan A, Koch RL. "Unraveling the parasitoid complex of soybean gall midge" Entomological Society of America Annual Meeting. Nov 10 – 13, 2024. Phoenix, AZ. (Talk, 1st Place Award).
- 34) Stilwell P*, Jones MW, Lindsey ARI. "Spatial dynamics of Wolbachia throughout Drosophila simulans development" Entomological Society of America Annual Meeting. Nov 10 – 13, 2024. Phoenix, AZ. (Talk, 2nd Place Award).
- 33) Fricke LC*, Lindsey ARI. "Identification of parthenogenesis inducing Wolbachia proteins in parasitoid wasps" Entomological Society of America Annual Meeting. Nov 10 – 13, 2024. Phoenix, AZ. (Talk, 2nd Place Award).

- 32) Fricke LC*, Lindsey ARI. "Examining mechanisms of asexuality inducing symbiont effector proteins" Conference on Beneficial Microbes. Madison, WI. July 21 – 25, 2024. (Invited for talk from submitted abstracts).
- Jones MW*, Lindsey ARI. "Co-transmitted *Wolbachia* exhibit distinct patterns of niche partitioning in host ovaries" Conference on Beneficial Microbes. Madison, WI. July 21 – 25, 2024. (Poster).
- Stilwell P*, Jones MW, Lindsey ARI. "Spatial dynamics of *Wolbachia* transmission in *Drosophila simulans*" Conference on Beneficial Microbes. Madison, WI. July 21 – 25, 2024. (Poster).
- Gelaw MA*, Lindsey ARI. "Wolbachia support host development through metabolite provisioning and redox balance" Conference on Beneficial Microbes. Madison, WI. July 21 – 25, 2024. (Poster).
- 28) Jones MW*, Lindsey ARI. "Co-transmitted Wolbachia exhibit distinct patterns of distribution in Drosophila ovarian tissue." North Central Branch Meeting of the Entomological Society of America. March 24 – 27, 2024. Fort Collins, CO. (Talk).
- 27) Stacke R*, Lisak S, Anderson P, Lindsey ARI, Koch RL. "Predation of *Pterostichus melanarius* (Coleoptera: Carabidae) on cocoons of soybean gall midge, *Resseliella maxima* (Diptera: Cecidomyiidae)" North Central Branch Meeting of the Entomological Society of America. March 24 27, 2024. Fort Collins, CO. (Talk).
- 26) Lisak SC*, Lindsey ARI, Hodgson E, McMechan A, Koch RL. "Parasitism of soybean gall midge by *Synopeas maximum* across the Upper Midwest" North Central Branch Meeting of the Entomological Society of America. March 24 27, 2024. Fort Collins, CO. (Talk, 3rd Place Award).
- 25) Fricke LC*, Lindsey ARI. "Identification of parthenogenesis inducing *Wolbachia* proteins in parasitoid wasps" Entomological Society of America Annual Meeting. Nov. 5 8, 2023. National Harbor, MD. (Talk).
- 24) Stilwell P*, Jones MW, Lindsey ARI. "Spatial dynamics of *Wolbachia* transmission in *Drosophila simulans*" Entomological Society of America Annual Meeting. Nov. 5 – 8, 2023. National Harbor, MD. (Talk, 1st Place Award).
- 23) Melotto G*, Potter B, Lindsey ARI, Koch RL. "Arthropod predator community associated with soybean gall midge in Minnesotan soybean fields" Entomological Society of America Annual Meeting. Nov. 5 – 8, 2023. National Harbor, MD. (Poster, 1st Place Award).
- 22) Lisak SC*, Lindsey ARI, Koch RL. "Utilizing qPCR to evaluate soybean gall midge parasitism rates across the Midwest" Entomological Society of America Annual Meeting. Nov. 5 – 8, 2023. National Harbor, MD. (Talk).
- Jones MW*, Lindsey ARI. "Co-transmitted *Wolbachia* exhibit distinct patterns of distribution in host ovarian tissue" UMN Developmental Biology Center Annual Symposium. October 2, 2023. (Poster).
- 20) Fricke LC*, Lindsey ARI. "Identification of parthenogenesis inducing Wolbachia proteins" 11th Wolbachia Conference. Orthodox Academy of Crete, Greece. June 11 – 16, 2023. (Invited for talk from submitted abstracts).
- 19) Jones MW*, Lindsey ARI. "Co-transmitted Wolbachia exhibit distinct patterns of distribution in host ovarian tissue" 11th Wolbachia Conference. Orthodox Academy of Crete, Greece. June 11 – 16, 2023. (Invited for talk from submitted abstracts).
- 18) Melotto G*, Potter BD, Lindsey ARI, Koch RL. "Evaluating parasitism of soybean gall midge by a newly discovered species of *Synopeas* in Minnesota" Joint North Central and Southwestern Branch Meeting of the Entomological Society of America. April 16 – 19, 2023. Oklahoma City, OK. (Talk).
- 17) Lisak SC*, Lindsey ARI, Koch RL. "Optimizing molecular gut content analysis to determine predation rates on soybean gall midge, a new pest of soybean" Joint North Central and

Southwestern Branch Meeting of the Entomological Society of America. April 16 – 19, 2023. Oklahoma City, OK. (Talk).

- 16) Fricke LC*, Lindsey ARI. "Parthenogenesis inducing Wolbachia proteins alter eukaryotic cell function" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 – 16, 2022. (Talk, received 2nd Place Award)
- 15) Jones MW*, Lindsey ARI. "Co-transmitted Wolbachia engage in niche-partitioning within host insect tissues" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 – 16, 2022. (Talk).
- 14) Lisak SC*, Lindsey ARI, Koch RL. "Quantifying predation rates on soybean gall midge, a new pest of soybean in the Upper Midwest" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 – 16, 2022. (Talk, received 1st Place Award)
- Lozano RE*, Lindsey ARI, Paula DP, Andow D, Koch RL. "Population genetics of the soybean aphid voltage-gated sodium channel gene" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 – 16, 2022. (Talk, received 2nd Place Award)
- 12) Melotto G^{*}, Potter BD, Lindsey ARI, Koch RL. "Characterizing parasitism of soybean gall midge in Minnesota" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 – 16, 2022. (Talk).
- 11) Shanovich HN*, Perish P, Lindsey ARI, Aukema B. "What bup? Identifying which *Agrilus* sp. is responsible for hybrid hazelnut damage in the eastern US" Entomological Society of America Annual Meeting. Vancouver, BC, Canada. Nov. 13 16, 2022. (Talk).
- Lozano RE*, Lindsey ARI, Paula DP, Andow D, Koch RL. "Population genetics of insecticide resistance in soybean aphid" ASA, CSSA and SSSA International Annual Meeting. Baltimore MD. Nov. 6 – 9, 2022. (Talk).
- 9) Jones MW*, Fricke LC, Lindsey ARI. "Niche partitioning of co-transmitted symbionts" Conference on Beneficial Microbes. Madison, WI. July 10 – 14, 2022. (Poster).
- 8) Fricke LC*, Lindsey ARI. "Uncovering Parthenogenesis Inducing Factors of *Wolbachia*" Conference on Beneficial Microbes. Madison, WI. July 10 – 14, 2022. (Poster).
- Melotto G*, Potter BD, Lindsey ARI, Koch RL. "Characterizing the predator communities associated with soybean gall midge in Minnesota" North Central Branch Meeting of the Entomological Society of America. Mar. 20 – 23, 2022. Minneapolis, MN. (Talk, received 2nd place award).
- 6) Jones MW*, Fricke LC, Lindsey ARI. "Role of niche partitioning in establishment and maintenance of stable *Wolbachia* co-infections in *Drosophila simulans*" North Central Branch Meeting of the Entomological Society of America. Mar. 20 – 23, 2022. Minneapolis, MN. (Talk).
- Fricke LC*, Lindsey ARI. "Uncovering Parthenogenesis Inducing Factors of Wolbachia" North Central Branch Meeting of the Entomological Society of America. Mar. 20 – 23, 2022. Minneapolis, MN. (Talk).
- Lozano RE*, Lindsey ARI, Paula DP, Andow D, Koch RL. "Variability in mutations in the voltage-gated sodium channel among soybean aphid populations" North Central Branch Meeting of the Entomological Society of America. Mar. 20 – 23, 2022. Minneapolis, MN. (Talk, received 3rd place award).
- Melotto G*, Potter BD, Lindsey ARI, Koch RL. "Biological control of soybean gall midge". 2022 Midwest Soybean Gall Midge Discussion Series. Feb. 16, 2022 (15-minute talk with 192 attendees)
- Lozano RE*, Lindsey ARI, Paula DP, Andow D, Koch RL. "High Throughput Assessment of Spatio-Temporal Dynamics of Pyrethroid Resistance Evolution in Field-Collected Populations of Soybean Aphids" Entomological Society of America Annual Meeting. Denver, CO. Oct. 31 – Nov. 3, 2021. (Talk).

 Fricke LC*, Lindsey ARI. "Uncovering Parthenogenesis Inducing Factors of *Wolbachia*" Entomological Society of America Annual Meeting. Denver, CO. Oct. 31 – Nov. 3, 2021. (Talk).

Scholarly Reviews, Commentaries, and Press Related to My Work Press Article, "These bacteria trigger a sex change in wasps — scientists finally know how" Live Science: <u>https://www.livescience.com/animals/scientists-finally-unravel-how-a-zombie- parasite-turns-every-wasp-in-a-population-into-a-female</u>	July 2024
Journal Highlight: "Microbial Manipulators of Insect Sexual Reproduction" McGrath, Casey. <i>Genome Biology and Evolution</i> (2024): evae071. https://doi.org/10.1093/gbe/evae071 An editorial highlight written about Fricke & Lindsey (2024) <i>GBE</i> and our identification of the first putative parthenogenesis-inducing proteins.	April 2024
Press Articles, "Discovery of bacterial proteins that induce asexual reproduction in insects" ScienMag (Original): <u>https://scienmag.com/discovery-of-bacterial-proteins- that-induce-asexual-reproduction-in-insects/</u> Bioengineer.org: <u>https://bioengineer.org/discovery-of-bacterial-proteins-that- induce-asexual-reproduction-in-insects/</u> Phys.org: <u>https://phys.org/news/2024-04-discovery-bacterial-proteins- asexual-reproduction.html</u>	April 2024
Journal Cover: March 2024 <i>Genome Biology and Evolution</i> Our publication was selected to feature on the cover of the journal. The illustration and art was created by PhD student and first author, Laura Fricke. <u>https://academic.oup.com/gbe/issue/16/3</u>	March 2024
Press Article, DTN/Progressive Farmer, "A Real-life Wasp Superhero Battles Soybean Pest" <u>https://www.dtnpf.com/agriculture/web/ag/blogs/production- blog/blog-post/2023/05/11/real-life-wasp-superhero-battles</u>	May 2023
Press Articles, "New species of parasitic wasp associated with soybean pest in Minnesota" UMN Research Brief (Original): <u>https://twin-cities.umn.edu/news- events/new-species-parasitic-wasp-associated-soybean-pest-minnesota</u> Pensoft Publishers Blog: <u>https://blog.pensoft.net/2023/05/12/new-species- of-parasitic-wasp-associated-with-soybean-pest-in-minnesota/</u> Fox9 News: <u>https://www.fox9.com/news/new-parasitic-wasp-could-help- manage-soybean-pest-in-minnesota</u>	May 2023
Extension Article, UMN Crop News, "A new species of parasitic wasp found attacking soybean gall midge" <u>https://blog-crop-news.extension.umn.edu/2023/05/a-new-species-of-parasitic-wasp-found.html</u>	May 2023

Journal Cover: April 2023 <i>Genes, Genomes, Genetics</i> Our publication was selected to feature on the cover of the journal. The illustration and art was created by PhD student and second author, Megan Jones. <u>https://academic.oup.com/g3journal/issue/13/4</u>	April 2023
Press Articles, "U of M students sequence genome of newly discovered soybean pest" UMN Research Brief (Original): <u>https://twin-cities.umn.edu/news-events/u- m-students-sequence-genome-newly-discovered-soybean-pest</u> Farms: <u>https://www.farms.com/news/u-of-m-students-sequence-genome-of- newly-discovered-soybean-pest-191175.aspx</u>	March 2023
Interview, <i>Wolbachia</i> Project's Symbiosis Scientist Saturdays (<u>https://www.vanderbilt.edu/wolbachiaproject/</u>) which is published across several social media platforms. <u>https://www.facebook.com/200747433298748/posts/6494014883971940/?d</u> =n	October 2021
Press Article, Entomology Today, published by the Entomological Society of America "How One Entomologist Works to Bridge Molecular Mechanisms with Evolutionary Processes" <u>https://entomologytoday.org/2021/09/30/entomologist-bridge-molecular- mechanisms-evolutionary-processes-amelia-lindsey-standout-early-career- professional/</u>	September 2021
Podcast Episode, RadioBio (radiobio.net), a podcast produced by graduate students in the Quantitative & Systems Biology graduate group at UC Merced. I was interviewed about my lab's research. <u>https://soundcloud.com/user-386034408/dr-amelia-lindsey-the-microbial-world-with-wolbachia</u>	November 2020
Feature and commentary, Faculty of 1000, Genomics and Genetics: Lindsey <i>et al.</i> , 2018 GBE "Evolutionary genetics of cytoplasmic incompatibility genes <i>cifA</i> and <i>cifB</i> in Prophage WO of <i>Wolbachia</i> " recommended by F1000 member Marta Wayne. <u>https://f1000.com/prime/732528917</u>	July 2018

TEACHING

Scheduled Teaching

University of Minnesota

Structure and Function of Insects: ENT 5011

- Spring 2025 (15 enrolled as of 2024/12/13)
- Spring 2023 (7 students) Student evaluations: Instructor overall 5.87/6; course overall 5.45/6.
- Spring 2022 (10 students) Student evaluations: Instructor overall 5.71/6; course overall 5.59/6
- Spring 2021 (7 students); Student evaluations: Instructor overall 5.89/6; course overall 5.82/6

Insects, Microbes, and Plants: Ecology of Pest Management: CFAN 2333

- Fall 2024 (31 students) Student evaluations: Instructor overall 5.78/6; course overall 5.53/6
- Fall 2023 (59 students) Student evaluations: Instructor overall 5.4/6; course overall 5.1/6
- Fall 2022 (55 students) Student evaluations: Instructor overall 5.6/6; course overall 5.36/6

"Designer Insects": Glowing eyes to self-destructing flies: ENT 1908. *In Fall 2020 this course was listed as "Engineered Insects"

- Fall 2021 (7 students); Student Evaluations: Instructor overall 5.58/6; course overall 5.21/6
- Fall 2020 (10 students); Student Evaluations: Instructor overall 5.62/6; course overall 5.5/6

Graduate Seminar: ENT 8300

• Fall 2020, Spring 2021, Fall 2021, Spring 2022. No evaluations.

Other Instructional Activity

 Woods Hole Marine Biological Labs (MBL) Co-director for the Advanced research training course: "Molecular and Cell Biology of Symbiosis" I co-organize the month-long course, in addition to running a week-long module (see below). This includes coordinating instructors, lecturers, equipment/research needs, planning the course content, and reviewing participant applications. I work closely with the MBL and co-director Philip Cleves throughout the year and will be on-site for the majority of the course. 	January 2025 – present Summer 2026-2027 anticipated
Woods Hole Marine Biological Labs (MBL) Course Instructor/Scientific Course Consultant for the Advanced research training course: "Molecular and Cell Biology of Symbiosis"	Summer 2024 - present
Organized, lead, and coordinated lectures and laboratory exercises for "Insect Symbioses Week". My PhD student Megan Jones is also a Teaching Assistant for the course. Course preparation and design includes giving lectures about	

leading research-based laboratory modules for ~16 students. During my section, there are >60 hours of hands-on in-person training and content delivery with the students.

the field of symbiosis and my lab's research, plus planning and

CURRICULUM DEVELOPMENT

University of Minnesota

ENT 5011: Structure and Function of Insects Lecture & Lab: 4 credit hours, 6 hours in-class instruction/week One of three required core courses for graduate students in the entomology program (MS and PhD). As such, course enrollment is largely tied to the Spring 2021 – present number of first-year students in the program. Additionally, there are often 1-2 undergraduate students and/or 1-2 graduate students from other programs (e.g, Ecology, Evolution, and Behavior) that enroll each semester. This course covers comparative insect morphology, development, and physiology, rooted in an evolutionary context. In my first semester teaching this course, I did a complete redesign of this course. Current insect physiology research relies heavily on an understanding of genomics, RNA-Seq, RNAi, *etc*, so lectures and journal discussions were specifically designed for students to understand the application of these tools. Additionally, I use this course as an opportunity for students to practice "soft skills" that they will need in graduate school and beyond (e.g., oral presentation). Finally, each year I update and revise this course in several ways: (1) based on feedback from my peers and the students, (2) new publications and discoveries as they relate to the content, and (3) a fresh selection of publications for the journal clubs.

CFAN 2333: Insects, Microbes, and Plants: Ecology of Pest Management Lecture & Discussion: 3 credit hours, 3 hours in-class instruction/week Instructor of record. Co-taught with Brett Arenz (UMN Plant Pathology). Undergraduate major's course; 3 credit hours, two lectures and one discussion section per week. In this course we use project-based learning to help students generate a holistic understanding of the ecological interactions at play in agriculture. My topic responsibilities in this course include insect-related topics (beneficial insects, insecticide resistance, etc). This course was historically taught by other faculty, and I made significant revisions to diversify and update the materials in Fall 2022. Fall 2022 -

Fall 2020,

2021

present

ENT 1908: "Designer Insects": Glowing eyes to self-destructing flies Discussion: 1 credit hour, 1 hour in-class instruction/week

I designed this course *de novo* in my first months as an Assistant Professor at UMN. Focuses on the use of genomics and genetic engineering in insects. This "freshman seminar" course is an opportunity for new undergraduate students to explore exciting topics outside of their major while also getting an orientation to the university. I designed this course as a merger of genetics and genomics applications, and thinking about ethics, human impacts, and equity in scientific progress. We had weekly discussion groups with a flipped classroom model. Note that in Fall 2020, I offered this course as "Engineered" Insects: Science, Ethics, Society, and the Environment" – I changed the name for Fall 2021 given some curious biases: half of the students were from the engineering department, and 90% of the students were male. As an experiment, I changed the name to "Designer Insects" (as listed above) and enrollment shifted to represent undergraduates from more colleges and a much more even gender-ratio.

PROFESSIONAL DEVELOPMENT

National Center for Faculty Development & Diversity (NCFDD),	December 2020 – present
Member	
Mental Health Advocate Training (UMN)	August 2020 – May 2021
Anti-Racist Education and Training (Academics for Black Survival	June 19-25, 2020
and Wellness: https://www.academics4blacklives.com/)	

Women's Faculty Writing Groups (IU)	August 2017 – July 2020
Setting Up Your Lab Workshop (IU)	August 2017
Research and Scholarship Ethics (UCR)	September 2016 – December 2016
Next Generation Data Analysis Workshop (UCR)	December 2014
POGIL: Process Guided Inquiry Learning, Facilitator: Laura	Lavine October 2014
Teaching Assistant Development Program (UCR)	September 2013

ADVISING AND MENTORING

Undergraduate and High School Students Advised

Advisees

Graysen Lee; High School Student. Employed as part time	July 2024 – March 2025
student research technician.	
Pablo Stilwell; Major: Fisheries, Wildlife and Conservation	March 2023 – December 2024
Biology, Minor: Insect Science. Employed as	
Undergraduate Research Assistant	
Ashlyn Anderson; Visiting Undergraduate from Bemidji	March – July 2022
State University. Major: Biology	
Lauren Vander Esch, UMN Linguistics BA	January 2022 – May 2022
1 credit directed research (ENT 3294)	

Graduate Student Activities

Advisees

Matthew Villalta, Entomology PhD	September 2024 – present
Sarah von Gries (Lisak)* [@] , Entomology PhD	June 2022 – present
^Rosa (Tina) Ernestina Lozano Murcia* ^{&} , Entomology PhD	January 2021 – August 2023
[^] Tessa Durnin [#] , Entomology MS	June 2021 – December 2021
Megan Jones, Entomology PhD	September 2021 – present
^Gloria Melotto*, Entomology MS	June 2021 – December 2023
Cody Thorpe [%] , Entomology PhD	September 2020 – October 2021
Laura Fricke, Entomology PhD	September 2020 – present

^Graduated

*co-advised with Robert Koch

- [#]I served on Tessa's thesis committee until the unexpected death of her advisor, Len Ferrington, at which point I took on the role of Tessa's primary advisor to help guide her to a successful defense and graduation.
- [&]I served on Tina's thesis committee until I transitioned to a formal co-advisor in February 2023. This decision was based on a significant shift in Tina's projects to more genetics and molecular biology, the large amount of time she spent working in my lab under my supervision.

[%]Left the program due to a change in personal situation.

[@]Sarah von Gries used "Sarah Lisak" prior to September 2024

Doctoral Final Exam Committee: Reviewer	
Rosa (Tina) Ernestina Lozano Murcia, Entomology PhD	August 2023
Hailey Shanovich, UMN Natural Resources Science and	May 2023
Management, PhD	-
Xin Wu, Georgia Institute of Technology, Bioinformatics, PhD	May 2021

Doctoral Advisory Committee: Chair

Matthew Villalta, Entomology PhD Sarah von Gries, Entomology PhD (transitioned from MS) Megan Jones, Entomology PhD (transitioned from MS) Rosa (Tina) Ernestina Lozano Murcia, Entomology PhD Cody Thorpe, Entomology PhD Laura Fricke, Entomology PhD

Doctoral Advisory Committee: Member

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Saul Aguirre, UMN Entomology PhD	February 2025 – present
Madalene Halley, UMN Molecular, Cellular, Developmental	October 2023 – present
Biology & Genetics PhD	
Mauricio Ramirez, UMN Entomology, PhD	February 2023 – present
Madison Ahmad, UMN Microbiology, Immunology, and	December 2022 – present
Cancer Biology PhD	
Lili Hagg, UMN Ecology, Evolution, and Behavior, PhD	September 2022 – present
Abigail Meyer, UMN Ecology, Evolution, and Behavior, PhD	March 2022 – present
Rosa (Tina) Ernestina Lozano Murcia, Entomology PhD	January 2021 – February 2023
Hailey Shanovich, UMN Natural Resources Science and	November 2020 – May 2023
Management, PhD	
Xin Wu, Georgia Institute of Technology, Bioinformatics, PhD	November 2019 – May 2021

Doctoral Preliminary Exam Committee: Chair

Megan Jones, Entomology, PhD Abigail Meyer, UMN Ecology, Evolution, and Behavior, PhD Rosa (Tina) Ernestina Lozano Murcia, Entomology PhD

Doctoral Preliminary Exam Committee: Member

Madalene Halley, UMN Molecular, Cellular, Developmental	October 2023 – March 2024
Biology & Genetics PhD	
Mauricio Ramirez, UMN Entomology, PhD	May 2024
Lili Hagg, UMN Ecology, Evolution, and Behavior, PhD	December 2022
Hailey Shanovich, UMN Natural Resources Science and	August 2021
Management, PhD	
Xin Wu, Georgia Institute of Technology, Bioinformatics, PhD	April 2020

Master's Thesis Committee: Chair

Sarah von Gries, Entomology MS (transitioned to PhD)	June 2022 – September 2023
Megan Jones, Entomology MS (transitioned to PhD)	September 2021 – September 2023
Tessa Durnin, Entomology MS	June 2021 – December 2021
Gloria Melotto, Entomology MS	May 2021 – December 2023

Master's Advising Committee: Member

Jay Delacy, UMN Entomology, MS Pheylan Anderson, UMN Entomology, MS Josephine Dillon, UMN Entomology, MS Tessa Durnin, Entomology MS May 2024 – present February 2023 – present November 2021 – August 2023 October 2020 – June 2021

September 2024 – present September 2023 – present

September 2023 – present

September 2020 - present

May 2024

May 2024

November 2021

February 2023 – August 2023 September 2020 – October 2021

Additional Advising Activities Prior to the University of Minnesota

Indiana University: Newton and Hardy Labs

Mentoring in the Newton and Hardy labs was very collaborative. I worked most closely with the following students on various aspects of their independent projects, including statistics, experimental design, insect cell culture, bioinformatics, and molecular methods.

- Kaeli Bryant, BS Biology Honors student (Current: PhD student, Vanderbilt University)
- Sylvie Martin-Eberhardt, BS Biology student (Current: PhD student, Michigan State University)
- Megan Perkins, BS Biology student (Current: PhD student, University of North Carolina Chapel Hill)
- Tamanash Bhattacharya, PhD Microbiology (Current: Postdoc, Fred Hutch Cancer Research Center)
- Lauren Nease, PhD Microbiology (Current: Postdoc, Duke University)
- Jack Crawford, PhD Microbiology (Current: Medical Science Liaison, Sanofi)
- Audrey Parish, PhD Ecology and Evolution student (Current: Postdoc, Baylor College of Medicine)
- Delaney Miller, PhD Ecology and Evolution student (Current: Postdoc: University of Wisconsin Madison)

University of California Riverside: Stouthamer Lab

- Christina Luu, March 2016 June 2017, BS Entomology student
- Barbara Baker, April 2016 Dec 2016, Lab Assistant
- Daniel Pers, Jan 2016, visiting Ph.D. candidate
- Hector Montes, July 2013 Sep 2014, BA Anthropology student
- Jane Gao, Nov 2013 June 2014, BS Biochemistry student

San José State University: Ouverney Lab

• Margarita Rangel, June 2012 – Aug 2012, BS Microbiology student

POST DOC AND STAFF MENTORSHIP AND SUPERVISION

Pablo Stilwell, Senior Technician 2 Previously undergraduate researcher in my lab (see above) Starting August 2025, PhD student at the University of Maryland	January – August 2025
Jack Culotta, Researcher 2 Michael Gelaw, Researcher 2 Elizabeth Kissner Johnson, Researcher 2 Regina Stacke, Lab Technician Gabriel Zilnik, Postdoctoral Researcher: USDA-ARS Co-mentored on funded USDA NIFA postdoctoral fellowship "Factors mediating long term success in a biological control introduction." Dr. Zilnik visited and trained in the Lindsey lab August 2023.	March 2023 – present October 2023 – present October 2023 – December 2023 July 2023 – present August 2021 – December 2023

Service to the Discipline

Organized Professional Meetings and Symposia		
Scientific Committee, Invited Member: 12th Wolbachia Confer OIST, Okinawa, Japan, April 2025. Organizer: Dr. Takema	ence, S	– September 2023 April 2025
Fukatsu		
Discussion Leader "Extrinsic vs. Intrinsic Barriers to Gene Flow Ecological and Evolutionary Genomics Gordon Research	N",	July 2025
Conference		
Host and Organizer, Ecological and Evolutionary Genomics Generation Research Conference, "Power Hour" (https://www.grc.org/thpower-hour/)		July 2023, 2025
"Palette(able) Entomology: Using SciArt and SciComm for Effe Insect-focused Education and Engagement". Selected as a Program Symposium for the Entomological Society of Amer Annual Meeting. Vancouver, BC, Canada. Organized by: Shanovich HN, Lindsey ARI, Savoy-Burke G, Oxman K, and	ica	November 2022
Andrews H.	4	
"Synergy in arthropod genomics: Integrative solutions to functi and evolutionary biology." Entomological Society of America Annual Meeting. Minneapolis, MN. Organized and moderate Lindsey ARI, Ricci JD, and Smith EA.	1	November 2015
Other Conference Activities		
Student Poster Competition Judge, Conference on Beneficial	Microbes	July 2022, 2024
Session Moderator, North Central Branch ESA Meeting		March 2022
Co-Organizer, Symbiosis Scientists Social, ESA Annual Meeting	November 2	2021, 2022, 2023, 2024
Session Moderator, Midwest Fly Meeting		October 2021
Student Competition Judge, North Central Branch ESA Meetin	g	June 2021
Session Moderator, ESA Annual Meeting		November 2019
Student Competition Judge, ESA Annual Meeting		2018, 2019, 2020, 2022, 2023, 2024
Editorial Service		
Topic Editor: "New Frontiers in <i>Wolbachia</i> Biology 2025" A special issue in <i>Frontiers in Microbiology</i> , organized by Takema Fukatsu. Organized in conjunction with the <i>Wolbachia</i> 2025 Conference.	Februa	ry 2024 – present
Reviewing Editor, <i>Microbiology Spectrum</i> Guest Editor, Invited: <i>mBio</i>	Ma	ay 2022 – present July 2020

Manuscript Review

I have served as a peer reviewer for 65 manuscript submissions in total; 40 since 2020. Manuscript reviews were for the following journals, where the number in parentheses indicates the number of times reviewed for that journal.

Applied and Environmental Microbiology (3), BMC Biology (2), BMC Evolutionary Biology (3), BMC Genomics (2), Entomologia Generalis (2), Genes, Genomes, Genetics (5), Genetics (1),

Genome Biology and Evolution (5), GigaScience (2), ISME (3), Insect Biochemistry and Molecular Biology (1), Insect Molecular Biology (2), Microbiology Resource Announcements (2), Microbiology Spectrum (6), MicrobiologyOpen (2), Molecular Ecology (4), PLoS Pathogens (2), PeerJ (6), PloS One (3), Plos Biol (2), Scientific Reports (2), eLife (3), mSphere (2). Additionally, I served as a peer reviewer for a chapter in Heraty JM and Woolley JB (eds), Chalcidoidea of the World, CABI, Wallingford, UK.

Grant Proposal Review

*Only year indicated (and not month) for those where panelist identity is protected

NIH Review Panel, Member: Transmission of Vector-Borne and Zoono Diseases (TVZ)	tic February 2025
NSF Panelist, Integrative Organismal Systems (IOS) Symbiosis, Infection and Immunity Panel	2023
External Proposal Reviewer, Israeli Science Foundation	2023
	June 2023
NIH Review Panel, Member: Genome Variation and Evolution (GVE)	
External Proposal Reviewer, NIH South Dakota INBRE/BRIN	2022
NSF IOS ad hoc Reviewer	2021
External Grant Proposal Reviewer, Austrian Science Fund	2021
Education and Outreach	
Educational booth organizer and host at "The Great Minnsect	April 2024
Show", a public event with >1600 visitors. The Lindsey Lab	·
designed and hosted "Itsy Bitsy Teeny Tiny Insects"	
Invited Panelist for Entomology Careers Webinar, ESA	June 2022
High School Classroom Virtual Visit; "Wolbachia and biotech	December 2021
careers", Santa Clara High School, CA	December 2021
	October 2020
Alumni Social Speaker, UMN Entomology	
Blog Contributor, Entomology Graduate Student Association	September 2016
"A Whole New World (of Wasps)" <u>https://ucr-</u>	
egsa.weebly.com/blog/a-whole-new-world-of-wasps	
Social Media Moderator, University of California Riverside,	March 2015 – June
Annual Riverside Insect Fair Facebook & Twitter Pages	2017
Trichogramma Photo Contributor, Illinois Natural History Survey	January 2015
Science Olympiad Coach, Riverside STEM Academy	Oct 2014 – Feb 2015
Social Media Moderator, University of California Riverside,	January 2014 – June
UCR Entomology Facebook & Twitter Pages	2017
Entomology Outreach Program, UCR: 250+ hours completed	Sept 2012 – June 2017
Biology Assistant Instructor, Fremont High School,	November 2009 – May
Sunnyvale, CA	2011
Other Service to the Discipline	
Community contact for the <i>Trichogramma pretiosum</i> genome project:	May 2018 – present
http://dx.doi.org/10.15482/USDA.ADC/1440020	
http://dx.doi.org/10.15482/USDA.ADC/1440022	
External evaluator for promotion: Scripps, Pitzer & Claremont McKenn	
External evaluator for promotion: University of California Riverside	September 2022
Service to the University of Minnesota	

Service to the University of Minnesota

University-wide

Interdisciplinary Doctoral Fellowship Review Committee November 2023 – January 2024

Proposal Reviewer, UMN Informatics Seed Grants Mental Health Advocate Developer and Organizer, "Shut Up and Write" Groups	December 2022 August 2020 – present September 2020 – present
Collegiate Rapid Agricultural Response Fund Review Committee	January 2021
Departmental Member, Entomology Faculty Search Committee Member, ad hoc Committee on Student Salaries Member, Entomology Faculty Search Committee Member (elected), Entomology Long Range Planning Committee Member, Entomology Diversity and Inclusion Committee Chair, Entomology Seminar Committee	February 2025 – present March 2022 March 2022 – December 2022 January 2021 – December 2023 October 2020 – August 2022 August 2020 – June 2022
Graduate Programs Chair, Entomology Graduate Program Admissions Committee Plant and Microbial Biology Graduate Program Writing Worksh Member, Plant and Microbial Biology Graduate Program Admissions Committee Graduate Student Recruitment/Admissions Visit Co-organizer	September 2023 – present
 Service to the University of California Riverside Chair, Hospitality Committee, Entomology Graduate Student Association Elected Member, Instruction and Student Affairs Committee, Entomology Department Member, Technology Committee, Entomology Grad Student Association 	October 2016 – June 2017 July 2016 – June 2017 October 2015 – June 2016
Representative from Entomology, Graduate Student Association President, UCR Entomology Graduate Student Association Outreach Coordinator, Entomology Department Member, Faculty Search Committee, Entomology Department Vice-President, Entomology Graduate Student Association Chair, Social Committee, Entomology Graduate Student	October 2015 – October 2016 July 2014 – June 2015 Jan 2014 – March 2014 November 2013 – March 2014 October 2013 – July 2014 June 2013 – June 2015
Association Member, Entomology Games Team Treasurer, Entomology Graduate Student Association Member, Social Committee, Entomology Graduate Student Association Member, Merchandise Committee, Entomology Graduate Student Association	November 2012 – June 2017 October 2012 – October 2013 October 2012 – October 2013 October 2012 – October 2013
Service to San José State University Alumni Officer, SJSU Tri-Beta Biological Honors Society Treasurer, SJSU Tri-Beta Biological Honors Society	May 2011 – August 2012 January 2011 – May 2011