

# AMELIA R.I. LINDSEY, PH.D.

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Cargill Building – Microbial & Plant Genomics Institute  
Office: Cargill 222; Lab: Cargill 250; 1500 Gortner Ave, St. Paul, Minnesota 55108  
www.lindseylab.org ♦ alindsey@umn.edu ♦ (612) 301-0068

## PROFESSIONAL APPOINTMENTS

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- July 2020 – Present      **Assistant Professor**, University of Minnesota Twin Cities  
Department of Entomology  
Microbial and Plant Genomics Institute  
Graduate Program Faculty Member, Entomology  
Graduate Program Faculty Member, Plant and Microbial Biology
- July 2017 – July 2020      **Postdoctoral Researcher**, Indiana University Bloomington  
Department of Biology
- Sep. 2012 – June 2017      **Graduate Student Researcher**, University of California Riverside  
Entomology Department
- Jan. 2014 – March 2014      **Teaching Assistant**, University of California Riverside  
Ecology and Evolution
- Sep. 2013 – Dec. 2013      **Teaching Assistant**, University of California Riverside  
Entomology

## EDUCATION

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- Sep. 2012 – June 2017      **Ph.D., Entomology, University of California Riverside**  
Molecular Entomology, Evolution, Bioinformatics  
♦ Dissertation Title: “Genomic and Evolutionary Consequences of  
*Wolbachia*-Mediated Parthenogenesis in *Trichogramma* Wasps”
- Aug. 2007 – May 2011      **B.A., Biological Sciences *cum laude*, San José State University**  
Biology, Preparation for Teaching

## RESEARCH EXPERIENCE

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- July 2017 – Present      **Postdoctoral Researcher**, Indiana University Bloomington  
Department of Biology, PIs: Irene Newton and Richard Hardy  
♦ *Wolbachia*-host interactions. Functional genomics of *Wolbachia*-mediated pathogen blocking.
- Sep. 2012 – June 2017      **Graduate Student Researcher**, University of California Riverside  
Entomology Department, PI: Richard Stouthamer  
♦ Evolution, genomics, and infection dynamics of *Wolbachia*-mediated parthenogenesis in the parasitoid wasp, *Trichogramma*.  
♦ Coordinated genome analyses of *Trichogramma pretiosum* and the *wTpre* *Wolbachia* strain: <http://www.arthropodgenomes.org/wiki/i5K>
- Nov. 2010 – Aug. 2012      **Undergraduate Researcher**, San José State University  
Biology Department, PI: 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.

- ◆ Managing skunk collection and databasing specimen information
- ◆ Goshawk pellet content identification for endangered species conservation

## PUBLICATIONS

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- 14) Lindsey ARI, Bhattacharya TB, Hardy RW, Newton ILG. ***Wolbachia* and virus alter the host transcriptome at the interface of nucleotide metabolism pathways.** Accepted at *mBio*. Preprint available at *BiorXiv*. doi:10.1101/2020.06.18.160317
- 13) Lindsey ARI<sup>°</sup>. (2020) **Sensing, signaling, and secretion: A review and analysis of systems for regulating host interaction in *Wolbachia*.** *GENES*. doi:10.3390/genes11070813  
<sup>°</sup>Corresponding author.
- 12) Wu X<sup>‡</sup>, Lindsey ARI<sup>°‡</sup>, Chatterjee P, Werren JH, Stouthamer R, Yi SV<sup>°</sup>. (2020) **Distinct epigenomic and transcriptomic modifications associated with *Wolbachia*-mediated asexuality.** *PLoS Pathogens*. doi:10.1371/journal.ppat.1008397 <sup>‡</sup>Co-first authorship; <sup>°</sup>Co-corresponding author
- 11) 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*. doi:10.1111/syen.12427
- 10) 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*. doi:10.1186/s13059-019-1925-7
- 9) Lindsey ARI and Newton ILG. (2019) **Some like it HOT: Horizontal operon transfer.** *Cell*. doi:10.1016/j.cell.2019.02.007
- 8) 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*. doi:10.1111/eea.12755
- 7) Lindsey ARI<sup>°</sup>, 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*. doi:10.1186/s12915-018-0520-9. <sup>°</sup>Corresponding author
- 6) Lindsey ARI<sup>‡</sup>, Bhattacharya T<sup>‡</sup>, Newton ILG, Hardy RW. (2018) **Conflict in the intracellular lives of endosymbionts and viruses: a mechanistic look at *Wolbachia*-mediated pathogen blocking.** *Viruses*. doi:10.3390/v10040141 <sup>‡</sup>Co-first authorship
- 5) 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*. doi:10.1093/gbe/evy012  
◆ Recommended on Faculty of 1000 Prime: <https://f1000.com/prime/732528917>
- 4) Lindsey ARI, Stouthamer R. (2017) **The effects of outbreeding on a parasitoid wasp fixed for infection with a parthenogenesis-inducing *Wolbachia* symbiont.** *Heredity*. doi:10.1038/hdy.2017.53

- 3) Lindsey ARI, Stouthamer R. (2017) **Penetrance of symbiont-mediated parthenogenesis is driven by reproductive rate in a parasitoid wasp.** *PeerJ*. doi:10.7717/peerj.3505
- 2) Lindsey ARI, Werren JH, Richards S, Stouthamer R. (2016) **Comparative genomics of a parthenogenesis-inducing *Wolbachia* symbiont.** *G3: Genes | Genomes | Genetics*. doi: 10.1534/g3.116.028449
- 1) Lindsey ARI<sup>\*</sup>, 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*. doi:10.1016/j.syapm.2016.03.001. <sup>\*</sup>Corresponding author

## MANUSCRIPTS IN PREPARATION

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Lue CH, Buffington ML, Scheffer S, Lewis M, Elliott TA, Driskell A, Jandova A, Masahito KT, Carton Y, Kula R, Schlenke T, Mateos M, Govind S, Varaldi J, Guerrieri E, Giorgini M, Wang X, Hoelmer K, Daane K, Abram P, Poirie M, Jiggins F, Tracey WD, Davis JS, Wertheim B, Lewis O, Leips J, Lindsey ARI, Staniczenko PPA, Hrcek J. **DROP: Molecular voucher database for identification of *Drosophila* parasitoids.** In preparation.

## RESEARCH GRANTS

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Jan. 2021 – June 2022	\$44,989	<b>University of Minnesota New Faculty Grants-In-Aid</b> PI: Lindsey ♦ Developing functional genomics tools to improve biological control
Feb. 2016 – Feb. 2018	\$70,277	<b>USDA NIFA Pre-Doctoral Fellowship</b> PI: Lindsey ♦ Evolutionary genomics of the reproductive manipulator, <i>Wolbachia</i> : Adaptation to biological control agents of the genus <i>Trichogramma</i> (NIFA 2016-67011-24778)
July 2016 – Dec. 2017	\$15,000	<b>van den Bosch Scholarship in Biological Control</b> PI: Lindsey ♦ Irreversible asexuality in biological control: Genomic consequences of <i>Wolbachia</i> -mediated parthenogenesis in <i>Trichogramma</i> wasps
June 2015 – May 2017	\$18,989	<b>NSF Doctoral Dissertation Improvement Grant</b> Co-PIs: Lindsey and Stouthamer ♦ Evolutionary strategies for adaptation in <i>Wolbachia</i> , a reproductive symbiont of arthropods (DEB 1501227)
July 2015 – Dec. 2016	\$10,000	<b>van den Bosch Scholarship in Biological Control</b> PI: Lindsey ♦ Comparative genomics of <i>Trichogramma</i> wasps and their associated reproductive symbiont, <i>Wolbachia</i>

## OTHER FELLOWSHIPS AND SCHOLARSHIPS

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Jan. 2019	\$750	IUB Provost’s Travel Award for Women in Science (IU)
July 2018	\$700	IUB Provost’s Travel Award for Women in Science (IU)
Sep. 2016	\$320	Ernest Propes Endowed Graduate Fellowship Fund (UCR)
July 2016	\$2,000	Young Investigator Travel Award (SMBE)

April 2016	<b>\$3,293</b>	Tejal Reddy Endowed Graduate Scholarship (UCR)
Feb. 2016	<b>\$800</b>	Graduate Dean's Dissertation Research Grant (UCR)
Sep. 2015 – June 2016	<b>\$21,598</b>	Graduate Research Mentorship Fellowship (UCR)
July 2015	<b>\$1,100</b>	Earle C. Anthony Graduate Travel Award (UCR)
May 2014	<b>\$6,000</b>	Dr. Mir S. Mulla & Leila Mulla Scholarship (UCR)
Nov. 2013 – June 2017	<b>\$2,455</b>	Graduate Student Association Travel Grants (UCR)
Sep. 2012 – June 2017	<b>\$24,807</b>	Chancellor's Distinguished Fellowship (UCR)

## AWARDS AND HONORS

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Sep. 2018	2 <sup>nd</sup> Place Presentation (Annual IU Microbiology Retreat)
Nov. 2017	1 <sup>st</sup> Place Graduate Student Presentation (Entomological Society of America)
Aug. 2017	Midwest Microbial Pathogenesis Conference 2017 Postdoc Registration Award
May 2017	Donors & Scholars Recognition Luncheon Selected Student Speaker (UCR)
April 2017	John Henry Comstock Ph.D. Student Award (Entomological Society of America)
April 2017	1 <sup>st</sup> Place Pacific Branch Linnaean Games (Entomological Society of America)
April 2017	2 <sup>nd</sup> Place Ph.D. Student Presentation (Entomological Society of America)
April 2017	Best Insect Photograph, Cellphone Category (Entomological Society of America)
Sep. 2016	1 <sup>st</sup> Place Graduate Student Poster (UCR)
July 2016	3 <sup>rd</sup> Place Graduate Student Presentation (International <i>Wolbachia</i> Conference)
Nov. 2015	1 <sup>st</sup> Place Graduate Student Presentation (Entomological Society of America)
Sep. 2015	1 <sup>st</sup> Place Graduate Student Presentation (UCR)
Nov. 2014	1 <sup>st</sup> Place Graduate Student Presentation (Entomological Society of America)
June 2014	3 <sup>rd</sup> Place Graduate Student Presentation (International <i>Wolbachia</i> Conference)
May 2014	Outstanding Teaching Assistant 2014 (UCR)
April 2014	Honorable Mention Student Presentation (Entomological Society of America)
April 2014	1 <sup>st</sup> Place Pacific Branch Linnaean Games (Entomological Society of America)
Nov. 2013	1 <sup>st</sup> Place National Linnaean Games (Entomological Society of America)
Sep. 2013	2 <sup>nd</sup> Place Graduate Student Presentation (UCR)
May 2011	Graduation with Honors, <i>cum laude</i> (San José State University)
April 2011	President's Scholar (San José State University)
March 2011	1 <sup>st</sup> Place Undergraduate Poster (American Society of Microbiologists)
Feb. 2011	3 <sup>rd</sup> Place Global Lens Photography Contest
April 2010	Dean's Scholar (San José State University)
May 2007	Honors at Entrance (San José State University)

## PRESENTATIONS

\*presenting author

- Lindsey ARI\***. "Functional genomics of microbe mediated asexuality in *Trichogramma* wasps." Entomological Society of America Annual Meeting. Virtual due to COVID-19. Nov. 15 – 18, 2020. Symposium: "Microbial Interactions and Their Influence on Organisms and Ecosystems." Organizers: Jocelyn Holt, Antonino Malacrinò, and Raul F. Medina (**Invited talk**).
- Lindsey ARI\***. "*Wolbachia* and virus alter the *Drosophila* transcriptome at the interface of nucleotide metabolism pathways." Midwest *Drosophila* Conference. Oct. 24, 2020. (**Selected for talk**).
- 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. (**Invited talk**).
- Lindsey ARI\*** and Newton ILG. "*Wolbachia* colonization affects insect nucleotide metabolism." ASM Microbe. Chicago, IL. June 18-22, 2020 (**Selected for talk**). \*Canceled due to COVID-19
- Lindsey ARI\***. "Functional genomics of parthenogenesis and symbiosis in *Trichogramma* wasps." *Nasonia* 2020. Claremont, CA. June 3-5, 2020. (**Invited talk**). \*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. (**Invited talk**). \*Seminar given remotely due to COVID-19



- Lindsey ARI\***. “Functional genomics of insect-*Wolbachia* interactions.” Entomology Department, University of Minnesota. July 8, 2019. **(Invited talk)**.
- Lindsey ARI\*** and Newton ILG. “Mechanisms of establishing symbiosis in *Wolbachia*.” American Society for Rickettsiology Meeting. Santa Fe, NM. June 8-11, 2019 **(Selected for talk)**.
- 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 **(Invited talk)**.
- Lindsey ARI\*** “Metatranscriptomic analysis of *Wolbachia*-mediated pathogen blocking.” Joint *Drosophila* Group Meeting, IU Biology. Oct. 12, 2018.
- Lindsey ARI\***, Sheehan KB, Martin M, and Newton ILG. “Mechanisms of establishing symbiosis in *Wolbachia*.” 7<sup>th</sup> Annual IU Micro Retreat. Nashville, IN. Sep. 15, 2018 **(Selected for talk, 2<sup>nd</sup> place award)**.
- 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. **(Invited talk)**.
- 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 **(Selected for talk)**.
- Lindsey ARI\***, Sheehan KB, Martin M, and Newton ILG. “Mechanisms of establishing symbiosis in *Wolbachia*.” International *Wolbachia* Conference. Salem, MA. June 17 – 22 **(Selected for talk)**.
- Lindsey ARI\***. Symposium: “*Wolbachia* and Other Prokaryotic Endosymbionts of Parasites” International Congress of Parasitology. Daegu, South Korea. Aug. 19 – 24, 2018. Symposium organizer: Wieslaw Kozek **(Invited talk, declined)**.
- Lindsey ARI\*** and Stouthamer R. “Penetrance of *Wolbachia*-mediated parthenogenesis is driven by reproductive rate in a parasitoid wasp” Entomological Society of America Annual Meeting. Denver, CO. Nov. 5 – 8, 2017. **(1<sup>st</sup> place award)**.
- Lindsey ARI\***. “Genomic and Evolutionary Consequences of *Wolbachia*-Mediated Parthenogenesis in *Trichogramma* Wasps” Dissertation Defense. Riverside, CA. May 31, 2017.
- 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 **(Invited talk)**.
- 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 talk)**.
- Lindsey ARI\*** and Stouthamer R. “The effects of outbreeding on a parasitoid wasp infected with parthenogenesis-inducing *Wolbachia*” Pacific Branch Meeting of the Entomological Society of America. Portland, OR. April 2 – 5, 2017. **(2<sup>nd</sup> place award)**.
- Lindsey ARI\***. “Genomic and phenotypic consequences of symbiont-mediated parthenogenesis” Microphiles Seminar. Indiana University, Bloomington, IN. Dec. 9<sup>th</sup>, 2016. Host: Irene Newton **(Invited talk)**.
- 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 **(Invited talk)**.
- Lindsey ARI\***, Werren JH, Richards S, and Stouthamer R. “Irreversible asexuality in biological control: Consequences of *Wolbachia*-mediated parthenogenesis in *Trichogramma* wasps” NIFA Fellows Project Directors Meeting. Washington D.C. Aug. 30 – 31, 2016.
- 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)**.
- Lindsey ARI\***, Werren JH, Richards S, and Stouthamer R. “Extensive protein-coding sequence truncations in the parthenogenesis-inducing *Wolbachia* strain infecting *Trichogramma pretiosum*” 9<sup>th</sup>

International *Wolbachia* Conference. Lamington National Park, Queensland, Australia. June 28<sup>th</sup> – July 3<sup>rd</sup>, 2016 (**Selected for talk, 3<sup>rd</sup> place award**).

**Lindsey ARI\***. “Genome evolution of a parthenogenesis-inducing *Wolbachia* symbiont” University of Rochester, Rochester, NY. March 31, 2016. Host: Jack Werren (**Invited talk**).

**Lindsey ARI\*** and Stouthamer R. “Genomics and adaptation in *Wolbachia*, an obligate reproductive parasite in *Trichogramma* wasps” Entomological Society of America Annual Meeting. Minneapolis, MN. Nov. 15 – 18, 2015 (**1<sup>st</sup> place award**).

**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 talk**).

**Lindsey ARI\*** and Stouthamer R. “Evolutionary genomics and adaptation in *Wolbachia*, an obligate reproductive parasite in *Trichogramma* wasps” University of California, Riverside Entomology Department Student Seminar Day. Riverside, CA. Sep. 17<sup>th</sup>, 2015 (**1<sup>st</sup> 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 11<sup>th</sup>, 2015 (**Selected for talk**).

**Lindsey ARI\*** and Stouthamer R. “Functional adaptation of *Wolbachia* to novel hosts” Entomological Society of America Annual Meeting. Portland, OR. Nov. 16 – 19, 2014. (**1<sup>st</sup> place award**).

**Lindsey ARI\*** and Stouthamer R. “Experimental evolution of *Wolbachia* in novel hosts” 8<sup>th</sup> International *Wolbachia* Conference. Innsbruck, Tyrol, Austria. June 6 – 11, 2014 (**Selected for talk, 3<sup>rd</sup> 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 (**Selected for talk**).

**Lindsey ARI\*** and Stouthamer R. “Experimental evolution of *Wolbachia* in novel hosts” 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” Entomological Society of America Annual Meeting. Austin, TX. Nov. 10 – 13, 2013.

**Lindsey ARI\*** and Stouthamer R. “Evolutionary strategies for adaptation in *Wolbachia*” University of California, Riverside Entomology Department Student Seminar Day. Riverside, CA. Sep. 19<sup>th</sup>, 2013 (**2<sup>nd</sup> place award**).

## POSTER PRESENTATIONS

\*presenting author

**Lindsey ARI**, Hardy RW, Newton ILG. *Wolbachia* dramatically alters the host transcriptome and metabolism, resulting in a muted response to viral infection. Gordon Research Conference and Seminar on Animal Symbioses. West Dover, VT. June 15-21, 2019.

**Lindsey ARI**, Hardy RW, Newton ILG. *Wolbachia* dramatically alters the host transcriptome and metabolism, resulting in a muted response to viral infection. Purdue Microbiome Symposium. West Lafayette, IN. May 13-14, 2019.

**Lindsey ARI\***, Wu X, Chatterjee P, Werren JH, Stouthamer S, and Yi SV. “Pathogenic parthenogenesis: Genome-wide consequences of symbiont-mediated asexuality” Midwest Microbial Pathogenesis Conference 2017. Notre Dame, IN. Aug. 25 – 27, 2017. (**Registration award**).

**Lindsey ARI\***, Werren JH, and Stouthamer R. “Genome evolution of an irreversibly asexual parasitoid wasp: *Trichogramma pretiosum*” University of California, Riverside Entomology Department Student Seminar Day. Riverside, CA. Sep. 14<sup>th</sup>, 2016 (**1<sup>st</sup> place award**).

**Lindsey ARI\*** and Stouthamer R. “Comparative genomics of *Wolbachia*: Evolution of genome content in a reproductive parasite” The 8th Congress of the International Symbiosis Society. Lisbon, Portugal. July 12 – 15, 2015.

De La Riva D, Kietzman P, **Lindsey ARI\***, McDermott EG, Shogren C. “Outreach at UCR: Dynamic approaches to community science education” Entomological Society of America Annual Meeting. Portland, OR. Nov. 16 – 19, 2014.

- Lindsey ARI\*** and Stouthamer R. "Simultaneous sequencing of host and endosymbiont: A draft genome for the *Wolbachia* strain *wTpre*" University of California, Riverside Entomology Department Student Seminar Day. Riverside, CA. Sep. 25<sup>th</sup>, 2014.
- Caldwell AC, Ghotra S\*, **Lindsey ARI\***, Nystrom A, and Ouverney CC. "Host associated versus environmental SR1 bacteria" American Society for Microbiology General Meeting. San Francisco, CA. June 16 – 19, 2012.
- Caldwell AC, Ghotra S\*, **Lindsey ARI\***, Nystrom A, and Ouverney CC. "Novel lineages in the recent SR1 candidate division bacteria" CSUPERB CSU Biotechnology Symposium. Santa Clara, CA. Jan. 5 – 7, 2012.
- Caldwell AC, Ghotra S\*, **Lindsey ARI\***, Nystrom A, and Ouverney CC. "SR1 bacteria: A fresh look" SACNAS National Conference. San José, CA. Oct. 27 – 30, 2011.
- Caldwell AC, Ghotra S\*, **Lindsey ARI\***, Nystrom A, and Ouverney CC. "SR1 bacteria: A fresh look" San José State University Student Research Day. San José, CA. May 13<sup>th</sup>, 2011.
- Caldwell AC, Ghotra S\*, **Lindsey ARI\***, Nystrom A, and Ouverney CC. "SR1 bacteria: A fresh look" Northern California Branch Spring Meeting of the American Society for Microbiology. Pleasanton, CA. March 11 – 12, 2011 (**1<sup>st</sup> place award**).

## TEACHING EXPERIENCE

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| Spring Semester 2021 | <p><b>Instructor of Record</b>, University of Minnesota<br/>ENT8300: Graduate Seminar</p> <ul style="list-style-type: none"> <li>◆ Departmental seminar series: Includes coordinating invited speakers and facilitating seminars from graduate students who register for credit 1-2 times during degree to give graded seminar; 1 credit hour; taught remote synchronously due to COVID.</li> </ul> |
| Spring Semester 2021 | <p><b>Instructor of Record</b>, University of Minnesota<br/>ENT5011: Structure and Function of Insects</p> <ul style="list-style-type: none"> <li>◆ Entomology graduate core course: 4 credit hours; lecture and lab; taught remote synchronously due to COVID.</li> </ul>  |
| Fall Semester 2020   | <p><b>Instructor of Record</b>, University of Minnesota<br/>ENT8300: Graduate Seminar</p> <ul style="list-style-type: none"> <li>◆ Departmental seminar series: Includes coordinating invited speakers and facilitating seminars from graduate students who register for credit 1-2 times during degree to give graded seminar; 1 credit hour; taught remote synchronously due to COVID.</li> </ul> |
| Fall Semester 2020   | <p><b>Instructor of Record</b>, University of Minnesota<br/>ENT1908: "Engineered" Insects: Science, Ethics, Society and the Environment.</p> <ul style="list-style-type: none"> <li>◆ Freshman seminar course: 10 students (two from MAST program); 1 credit hour; taught remote synchronously due to COVID.</li> </ul>   |
| Nov. 2017            | <p><b>Guest Lecture</b>, Indiana University Bloomington<br/>Biology M465, Lecturer: Irene Newton</p> <ul style="list-style-type: none"> <li>◆ Environmental Microbiology Lab – Designed and taught "Introduction to Statistics for Biology"</li> </ul>  |
| June 2017            | <p><b>Guest Lecture</b>, University of California Riverside<br/>English 1C, Lecturer: Elizabeth Gumm</p> <ul style="list-style-type: none"> <li>◆ Intermediate Composition – Designed and co-taught "Writing in the Sciences"</li> </ul>  |
| Winter Quarter 2015  | <p><b>Teaching Assistant</b>, University of California Riverside<br/>Biology 5C, Lecturers: Richard Stouthamer and Erin Wilson-Rankin</p> <ul style="list-style-type: none"> <li>◆ Introductory Evolution and Ecology – Two lab sections (40 students).</li> </ul>  |

- Nov. 2013                      **Guest Lecture**, University of California Riverside  
Phylogenomics Reading Group, Organizers: John Heraty and Christiane Weirauch
- ◆ Designed and co-taught “Bioinformatics for the –Omics: Processing next generation sequencing data for genomics and transcriptomics.”
- Fall Quarter 2013              **Teaching Assistant**, University of California Riverside  
Entomology 10, Lecturer: Rick Redak
- ◆ Natural History of Insects – Five discussion sections (163 students)
  - ◆ Received Outstanding Teaching Assistant award

## ORGANIZED SYMPOSIA

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“Synergy in arthropod genomics: Integrative solutions to functional and evolutionary biology.”  
Entomological Society of America Annual Meeting. Minneapolis, MN. November 15 – 18, 2015.  
Organized and moderated by: **Lindsey ARI**, Ricci JD, and Smith EA.

## ADDITIONAL TRAINING

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- Aug. 2020 – May 2021              Mental Health Advocate Training (UMN)  
June 19-25, 2020                      Anti-Racist Education and Training (Academics for Black Survival and Wellness -- <https://www.academics4blacklives.com/>)
- Aug. 2017 – Present                      Women’s Faculty Writing Groups (IU)  
Aug. 2017                                      Setting Up Your Lab Workshop (IU)  
Sep. 2016 – Dec. 2016                  Research and Scholarship Ethics (UCR)  
Dec. 2014                                      Next Generation Data Analysis Workshop (UCR)  
Oct. 2014                                      POGIL (Process Guided Inquiry Learning), Facilitator: Dr. Laura Lavine  
Sep. 2013                                      Teaching Assistant Development Program (UCR)

## SERVICE

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- Feb. 2016 – Present                      Manuscript reviewer for: The PeerJ (5), BMC Genomics (2), Nature Scientific Reports (2), Insect Biochemistry and Molecular Biology (1), GigaScience (2), Genes | Genomes | Genetics (3), MicrobiologyOpen (2), PLoS Pathogens (1), BMC Biology (1), Genome Biology and Evolution (4), Molecular Ecology (4), Microbiology Resource Announcements (1), PLoS ONE (3), eLife (1), BMC Evolutionary Biology (2), Journal of the International Society for Microbial Ecology: ISME (1). Peer review record is available at: <https://publons.com/a/1432720/>
- July 2020 – Present                      Editorial Board Membership: mBio (Invited Editor)
- May 2018 – Present                      Community contact for the *Trichogramma pretiosum* genome project:  
<http://dx.doi.org/10.15482/USDA.ADC/1440020>  
<http://dx.doi.org/10.15482/USDA.ADC/1440022>
- January 2021                                  External Grant Proposal Reviewer, Austrian Science Fund (equiv. of NSF)  
Sept. 2020 – Present                      Organizer, UMN Entomology Writing Groups  
Oct. 2020                                      UMN Entomology Alumni Social Speaker  
Oct. 2020 – Present                      *ad hoc* Member, Diversity and Inclusion Committee, UMN Entomology  
Aug. 2020 – Present                      Mental Health Advocate, UMN  
Aug. 2020 – Present                      UMN Entomology Seminar Committee, Chair  
June 2019 – Present                      Graduate Program Planning Committee, UMN Entomology  
Nov. 2019                                      Student Competition Judge, ESA 2019 Annual Meeting  
Nov. 2019                                      PBT Symposium Moderator, ESA 2019 Annual Meeting  
Nov. 2018                                      Student Competition Judge, ESA 2018 Annual Meeting



Oct. 2016	NSF GRFP Workshop Mock Reviewer, UCR Entomology
Oct. 2016 – June 2017	Hospitality Chair, UCR Entomology Graduate Student Association
July 2016 – June 2017	Instruction and Student Affairs Committee, UCR Entomology
Jan. 2016 – June 2017	Organizer, Molecular Evolution and Genomics Journal Club, UCR
Oct. 2015 – June 2017	Tech Committee, UCR Entomology Grad Student Association
Oct. 2015 – Oct. 2016	Entomology Representative, UCR Grad Student Association
Jan. 2015	<i>Trichogramma</i> Photo Contributor, Illinois Natural History Survey
Oct. 2014 – Feb. 2015	Science Olympiad Coach, Riverside STEM Academy
July 2014 – June 2015	President, UCR Entomology Graduate Student Association
Jan. 2014 – March 2014	Department Outreach Coordinator, UCR Entomology
Nov. 2013 – March 2014	Faculty Search Committee Member, UCR Entomology
Oct. 2013 – July 2014	Vice-President, UCR Entomology Graduate Student Association
June 2013 – June 2015	Social Committee Chair, UCR Entomology Grad Student Association
Nov. 2012 – June 2017	Linnaean Games Team, UCR Entomology
Oct. 2012 – Oct. 2013	Treasurer, UCR Entomology Graduate Student Association
Oct. 2012 – Oct. 2013	Social Committee, UCR Entomology Grad Student Association
Oct. 2012 – Oct. 2013	Merchandise Committee, UCR Entomology Grad Student Association
Sep. 2012 – June 2017	Entomology Outreach Program, UCR: 250+ hours completed
May 2011 – Aug. 2012	Alumni Officer, SJSU Tri-Beta Biological Honors Society
Jan. 2011 – May 2011	Treasurer, SJSU Tri-Beta Biological Honors Society
Nov. 2009 – May 2011	Biology Assistant Instructor, Fremont High, Sunnyvale, CA

## MENTORING AT UMN

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Graduate Students	<p><b>Laura Fricke</b> (July 2020 – Present) PhD Student, Entomology, UMN</p> <ul style="list-style-type: none"> <li>◆ Diversity of Views and Experiences (DOVE) Fellowship (18 Awards across UMN Twin Cities)</li> <li>◆ Awarded CFANS DOVE 2<sup>nd</sup> Year Match Fellowship</li> </ul> <p><b>Cody Thorpe</b> (September 2020 – Present) PhD Student, Entomology, UMN</p>
Thesis Committees	<p><b>Xin Wu</b> (November 2019 – Present) PhD Student, Bioinformatics, Georgia Tech Advisor: Soojin Yi</p> <p><b>Hailey Shanovich</b> (November 2020 – Present) PhD Student, Natural Resource Science and Management UMN Advisor: Brian Aukema</p>
Visiting Students	<p><b>Hailey Shanovich</b> (November 2020 – Present) (PhD Student Natural Resource Science and Management Program, UMN) Performing DNA barcoding and mitochondrial genome sequencing of mite species.</p>

## PREVIOUS MENTORING

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Newton and Hardy Labs	<p><b>Indiana University</b></p> <p>Mentoring in the Newton and Hardy labs is 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.</p> <ul style="list-style-type: none"> <li>◆ Kaeli Bryant, BS Biology Honors student</li> <li>◆ Sylvie Martin-Eberhardt, BS Biology student</li> <li>◆ Megan Perkins, BS Biology student</li> <li>◆ Tamanash Bhattacharya, PhD Microbiology candidate</li> </ul>
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- ◆ Lauren Nease, PhD Microbiology candidate
- ◆ Jack Crawford, PhD Microbiology student
- ◆ Audrey Parish, PhD Ecology and Evolution student
- ◆ Delaney Miller, PhD Ecology and Evolution student

Stouthamer Lab

#### University of California, Riverside

- ◆ 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

Ouverney Lab

#### San José State University

- ◆ Margarita Rangel, June 2012 – Aug. 2012, BS Microbiology student

## PROFESSIONAL MEMBERSHIPS

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Aug. 2017 – July 2020	Center of Excellence for Women in Technology at IU
March 2016 – Present	Society for Molecular Biology and Evolution
July 2014 – Present	International Symbiosis Society
March 2011 – Present	American Society for Microbiology
Feb. 2011 – Present	Entomological Society of America
Nov. 2010 – Present	Beta Beta Beta, Biological Honors Society

## SOCIAL MEDIA AND PRESS

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November 2020	<p><b>Podcast Interview</b>, Featured on RadioBio (radiobio.net), a podcast produced by graduate students in the Quantitative &amp; Systems Biology graduate group at UC Merced.</p> <ul style="list-style-type: none"> <li>◆ Link coming soon</li> </ul>
July 2018	<p><b>Article Feature</b>, 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 Dr. Marta Wayne.</p> <ul style="list-style-type: none"> <li>◆ <a href="https://f1000.com/prime/732528917">https://f1000.com/prime/732528917</a></li> </ul>
Jan. 2016	<p><b>Blog Contributor</b>, Entomology Graduate Student Association “A Whole New World (of Wasps)”</p> <ul style="list-style-type: none"> <li>◆ <a href="http://ucr-egsa.weebly.com/">http://ucr-egsa.weebly.com/</a></li> <li>◆ <a href="https://ucr-egsa.weebly.com/blog/a-whole-new-world-of-wasps">https://ucr-egsa.weebly.com/blog/a-whole-new-world-of-wasps</a></li> </ul>
March 2015 – June 2017	<p><b>Social Media Moderator</b>, University of California Riverside Annual Riverside Insect Fair Facebook &amp; Twitter Pages</p> <ul style="list-style-type: none"> <li>◆ <a href="https://www.facebook.com/AnnualRiversideInsectFair">https://www.facebook.com/AnnualRiversideInsectFair</a></li> <li>◆ <a href="https://twitter.com/InsectFair">https://twitter.com/InsectFair</a></li> </ul>
Jan. 2014 – June 2017	<p><b>Social Media Moderator</b>, University of California Riverside UCR Entomology Facebook &amp; Twitter Pages</p> <ul style="list-style-type: none"> <li>◆ <a href="https://www.facebook.com/ucrentomology">https://www.facebook.com/ucrentomology</a></li> <li>◆ <a href="https://twitter.com/UCRentomology">https://twitter.com/UCRentomology</a></li> </ul>
Aug. 2015	<p><b>Press Article</b>, UCR Today Six Graduate Students Win Entomology Awards</p> <ul style="list-style-type: none"> <li>◆ <a href="http://ucrtoday.ucr.edu/30851">http://ucrtoday.ucr.edu/30851</a></li> </ul>

- March 2015      **Press Article**, UCR Today  
Grad Students Coach Local High School Students for Science Olympiad  
♦ <https://ucrtoday.ucr.edu/27603>
- Jan. 2015      **Blog Feature**, Next Gen Scientist  
A List of Who to Follow for Entomology on Social Media  
♦ <http://www.thenextgenscientist.com/2015/01/02/top-entomologists-entomology-pages-to-follow-in-2015/>
- Nov. 2013      **Press Article**, UCR Today  
UC Riverside Wins 2013 Linnaean Games  
♦ <http://ucrtoday.ucr.edu/19152>