

**Dr. Elinor M. Lichtenberg**

The University of Texas  
Department of Integrative Biology  
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Austin, TX 78712

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**EDUCATION**

- Ph.D.** 2011 University of California, San Diego. Division of Biological Sciences  
*Eavesdropping, Foraging and Dominance in Keystone Neotropical Pollinators: Stingless Bees*, Advisor: James Nieh
- B.S.** 2003 University of Maryland, College Park. Biology: Behavior, Evolution, Ecology, and Systematics, *Summa cum Laude*, Biology High Honors, French Concentration Honors Thesis: *Abdomen Bobbing in Stalk-eyed Flies*, Advisor: Gerald Wilkinson

**APPOINTMENTS**

- 2020- Assistant Professor, Department of Biological Sciences, University of North Texas
- 2017-2019 Research Fellow, Department of Integrative Biology, The University of Texas at Austin, Austin, TX. Advisor: Shalene Jha
- 2015-2017 Postdoctoral Research Associate, Department of Ecology and Evolutionary Biology, The University of Arizona, Tucson, AZ. Advisor: Judith Bronstein
- 2013-2015 Postdoctoral Research Associate, Department of Entomology, Washington State University, Pullman, WA. Advisor: David Crowder

**GRANTS AND FELLOWSHIPS**

- 2018 **Prairie Biotic Research**, Small Grant (\$1,500) “Diversity of beetle and fly pollinators at experimentally restored prairies.” PI.
- 2017 **American Association of University Women**, American Postdoctoral Fellowship (Declined; \$30,000)
- 2013 **WSU College of Agricultural, Human, and Natural Resource Sciences**, internship grant (\$2,500). "Aphid pest management." Co-PI with David Crowder.
- 2010-2011 **ARCS Foundation**, Graduate Scholar Award (\$7,500). PI.
- 2009-2012 **National Science Foundation**, Doctoral Dissertation Improvement Grant (\$13,000). "DISSERTATION RESEARCH: Landscape-scale effects of competition and eavesdropping in stingless bees." Co-PI with James Nieh.
- 2009 **Animal Behavior Society**, Research Grant (\$1,000). “Context-dependent eavesdropping in stingless bees.” PI.
- 2006-2009 **National Science Foundation**, Graduate Research Fellowship (\$125,645)
- 2006 **Association of Women in Science San Diego Chapter**, Scholarship Award (\$1,000). PI.
- 2005-2009 **University of California, San Diego**, Chancellor’s Graduate Fellowship (\$20,000)
- 2001-2003 **Howard Hughes Medical Institute**, Undergraduate Research Fellowship (\$14,000)

**AWARDS AND HONORS**

- 2018 **International Union for the Study of Social Insects (IUSI)-North American Section**, Travel Award
- 2018 **University of Texas College of Natural Sciences**, Rom Rhome International Professional Development Award
- 2017 **Ecological Society of America Early Career Ecologist Section**, Outstanding Publication Award Finalist
- 2016 **National Science Foundation**, early career investigator travel award, International Society for Behavioral Ecology 2016 conference
- 2012 **IUSI-North American Section**, Travel Award
- 2012 **IUSI-North American Section**, Conference Award
- 2010 **IUSI-North American Section**, travel grant
- 2008 **Entomological Society of America**, President's Prize - First Place
- 2002 **University of Maryland, Baltimore County**, First Place, Biological Sciences Group 2 Poster Session, 5<sup>th</sup> Annual Undergraduate Research Symposium in the Chemical and Biological Sciences
- 2002 **Animal Behavior Society**, Genesis Award (Best Undergraduate Poster) - Honorable Mention
- 2002-present **Phi Beta Kappa**
- 2002 **Phi Beta Kappa Gamma of Maryland**, Junior Award (Outstanding Junior Inductee)

**PUBLICATIONS**

- Koch, JB, Looney C, Hopkins B, **Lichtenberg EM**, Sheppard WS and Strange JP. Projected climate change will reduce habitat suitability for bumble bees in the Pacific Northwest. In revision for *PLOS ONE*.
- 14) **Lichtenberg EM**, Irwin RE and Bronstein JB. 2018. Bee-flower interactions alter bees' motivations to cheat vs. cooperate in a pollination mutualism. *Ecology* 99: 1815-1824.  
• Data: <https://zenodo.org/record/1243208>
- 13) **Lichtenberg EM**, Mendenhall CM and Brosi BJ. 2017. Stingless bee species' traits alter responses to deforestation. *Journal of Animal Ecology* 86: 1404-1416.  
• Data: <https://zenodo.org/record/843615>
- 12) vanEngelsdorp D, Traynor KS, Andree M, **Lichtenberg EM**, Chen Y, Saegerman C and Cox-Foster DL. 2017. Colony collapse disorder (CCD) and bee age impact honey bee pathophysiology. *PLOS ONE* 12: e0179535.
- 11) Bronstein JB, Barker JL, **Lichtenberg EM**, Richardson LL and Irwin RE. 2017. The behavioral ecology of nectar robbing: why be tactic constant? *Current Opinion in Insect Science* 21: 14-18.
- 10) **Lichtenberg EM**, Kennedy CK, Kremen C, [60 additional authors] and Crowder DC. 2017. A global synthesis of the effects of diversified farming systems on arthropod diversity at field and landscape scales. *Global Change Biology* 23: 4946-4957.  
• Data: <https://zenodo.org/record/439109>
- 9) **Lichtenberg EM**, Graff Zivin J, Hrncir M and Nieh JC. 2014. Eavesdropping selects for conspicuous signals. *Current Biology* 24: R598-R599.
- 8) Pettis JS, **Lichtenberg EM**, Andree M, Stitzinger J, Rose R and vanEngelsdorp D. 2013. Crop pollination exposes honey bees to pesticides which alter their susceptibility to the gut pathogen *Nosema ceranae*. *PLOS ONE* 8: e70182.

- Highly Cited Paper in Web of Science
  - Used as a teaching model for how to structure a scientific paper by the World Health Organization's Hinari Access to Research for Health program.  
(<http://slideplayer.com/slide/4121536/> slide 28; I principally wrote the PLOS ONE article.)
- 7) Pettis JS, Rose R, **Lichtenberg EM**, Chantawankul P, Buawangpong N, Somana W, Prachaval S and vanEngesdorp D. 2013. A rapid survey technique for *Tropilaelaps* mite detection. *Journal of Economic Entomology* 106: 1535-1544.
  - 6) **Lichtenberg EM** and Brosi BJ. 2012. Expanded ranges of two stingless bee species: *Aparatriona isopterophila* and *Ptilotrigona occidentalis*. *Journal of the Kansas Entomological Society* 85: 374-377.
  - 5) **Lichtenberg EM**, Hrnecir M, Turatti IC and Nieh JC. 2011. Olfactory eavesdropping by two competing stingless bee species. *Behavioral Ecology and Sociobiology* 65: 763-774.
  - 4) **Lichtenberg EM**, Imperatriz-Fonseca VL and Nieh JC. 2010. Behavioral suites mediate group-level foraging dynamics in communities of tropical stingless bees. *Insectes Sociaux* 57: 105-113.
  - 3) **Lichtenberg EM**, Hrnecir M and Nieh JC. 2009. A scientific note: Foragers deposit attractive scent marks in a stingless bee that does not communicate food location. *Apidologie* 40: 1-2.
  - 2) **Lichtenberg EM** and Hallager S. 2008. A description of commonly observed behaviors for the kori bustard (*Ardeotis kori*). *Journal of Ethology* 26: 17-34.
  - 1) Hallager S and **Lichtenberg EM**. 2007. New display behavior in male kori bustard (*Ardeotis kori strunthiunculus*). *The Wilson Journal of Ornithology* 119: 750-755.

#### Manuscripts in preparation

**Lichtenberg EM**, Irwin RE and Bronstein JB. Bumble bees are constant to nectar robbing behavior despite low switching costs. In preparation for *Animal Behaviour*.

**Lichtenberg EM**, Richman SK, Irwin RE and Bronstein JB. Nectar robbing constancy is unaffected by nectar competition levels. In preparation for *Ecological Entomology*.

Campbell AJ\*, **Lichtenberg EM**\*, Carvalho L, Cabral R, Coelho B, Freitas M, Giannini C, Maues MM, Menezes C, Olivera FF and Silva TF. Functional traits can inform tropical bee conservation but not ecosystem services. In preparation for *Proceedings of the Royal Society B*. \*Joint first authors

#### Non-peer-reviewed-publications

Strange JP, Koch JB, Sheperd WS, Hopkins B, Long J, **Lichtenberg EM** and Looney C. 2014. Bumble bee community composition and population genetic diversity in the North Cascades and coast network: 2013 progress report. Seattle, WA: Pacific NW Cooperative Ecosystem Studies Unit.

#### INVITED TALKS

<sup>U</sup>Undergraduate co-author

Feb. 2019 **Lichtenberg EM**. "Insect biodiversity and foraging under habitat restoration." Department of Biological Sciences, University of North Texas (Denton, TX).

Feb. 2019 **Lichtenberg EM**. "Insect biodiversity and foraging in dynamic landscapes." Department of Biological Sciences, Fordham University (Bronx, NY).

Jan. 2019 **Lichtenberg EM**. "Improving ecological management through understanding plant-animal interactions." School of Biological Sciences, Queens University Belfast (Belfast, UK).

- Nov. 2018 **Lichtenberg EM**, Crowder DW Milosavljević I, Jha S, Heiser JU. "Pollinator responses to habitat loss and sustainability-oriented farming practices." Entomological Society of America Annual Meeting (Vancouver, Canada).
- June 2018 **Lichtenberg EM**. "My plans in research and teaching." School of Biological Sciences, University of Bristol (Bristol, UK).
- May 2018 **Lichtenberg EM**. "Insect biodiversity and foraging in dynamic landscapes." Department of Ecology and Evolution, Université de Lausanne (Lausanne, Switzerland).
- Mar. 2018 **Lichtenberg EM**. "Multifunctionality and insect foraging in dynamic landscapes." Department of Biology, Georgia Southern University (Statesboro, GA).
- Aug. 2017 **Lichtenberg EM**, Kennedy CK, Crowder DW. "Can environmental heterogeneity support multiple ecosystem services in agricultural landscapes? A global perspective." Early career perspectives on Future Earth: ecology & civilization webinar.
- Feb. 2017 **Lichtenberg EM**. "Multi-scale pollination dynamics in a changing world." Department of Biology, New Mexico State University (Las Cruces, NM).
- Mar. 2016 **Lichtenberg EM**. "Bee foraging behavior and ecology in anthropogenic landscapes." Department of Ecology and Plant Pathology, Auburn University (Auburn, AL).
- Feb. 2016 **Lichtenberg EM**. "Plant-pollinator interactions in a changing world." Department of Biology, Geology and Environmental Science, University of Tennessee Chattanooga (Chattanooga, TN).
- Sep. 2015 **Lichtenberg EM**. "Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees." Department of Entomology, The University of Arizona (Tucson, AZ).
- Feb. 2015 **Lichtenberg EM**. "Eavesdropping, foraging and habitat loss in keystone Neotropical pollinators, stingless bees." Department of Entomology, University of California, Riverside (Riverside, CA).
- Feb. 2015 **Lichtenberg EM**. "Effects of community-level interactions on bee foraging." Department of Biological Sciences, Mississippi State University (Starkville, MS).
- Nov. 2014 **Lichtenberg EM**, Kennedy C, Crowder D. "Effects of agricultural management and landscapes on the abundance and diversity of arthropods: a global analysis." Entomology 2014 (Portland, OR).
- Dec. 2013 **Lichtenberg EM**. "Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees." Department of Entomology, Washington State University (Pullman, WA).
- Oct. 2013 **Lichtenberg EM** and Brosi BJ. "Stingless bee species' traits alter responses to deforestation." WSU School of Biological Sciences Ecolunch (Pullman, WA).
- Sep. 2013 **Lichtenberg EM**. "Eavesdropping selects for conspicuous signals." Palouse Ecologists, Evolutionary Biologists and Systematists (Moscow, ID).
- Aug. 2012 **Lichtenberg EM**, Nieh JC. "Heterospecific recruitment pheromones facilitate efficient foraging by keystone Neotropical pollinators." Ecological Society of America Annual Meeting (Portland, OR).
- May 2012 **Lichtenberg EM**. "Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees." Department of Entomology, National Museum of Natural History (Washington, D.C.).

- Feb. 2012 **Lichtenberg EM.** “Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees.” Biology Department, Georgetown University (Washington, D.C.).
- Jan. 2012 **Lichtenberg EM.** “Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees.” Bee Research Laboratory, Agricultural Research Service, US Department of Agriculture (Beltsville, MD).
- Nov. 2011 **Lichtenberg EM.** “Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees.” Department of Entomology, University of Maryland, College Park (College Park, MD).
- Feb. 2011 **Lichtenberg EM.** “Context-dependent eavesdropping by stingless bees.” UCSD Division of Biological Sciences Recruitment (La Jolla, CA).
- Aug. 2010 **Lichtenberg EM.** “Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees.” Department of Biological Sciences, Aarhus University (Aarhus, Denmark).
- Aug. 2010 **Lichtenberg EM.** “Eavesdropping, foraging and dominance in keystone Neotropical pollinators: stingless bees.” School of Biological and Environmental Sciences, University of Stirling (Stirling, Scotland).
- July 2010 **Lichtenberg EM.** “Dominance and context-dependent eavesdropping by stingless bees.” IX Encontro sobre Abelhas: Genética e Biologia Evolutiva de Abelhas (Ribeirão Preto, Brazil).
- Feb. 2010 **Lichtenberg EM.** “Context-dependent eavesdropping by stingless bees.” UCSD Division of Biological Sciences Recruitment (La Jolla, CA).
- July 2008 **Lichtenberg EM.** “Scent marking by stingless bees.” VIII Encontro sobre Abelhas: Biodiversidade e Uso Sustentado de Abelhas (Ribeirão Preto, Brazil).

## **PRESENTATIONS**

<sup>U</sup>Undergraduate co-author

- Aug. 2019 **Lichtenberg EM,** Heiser J<sup>U</sup>, Baum KA, Jha S. “Resource requirements at local and landscape scales underlie trade-offs for conserving diverse pollinators.” Ecological Society of America Annual Meeting (Louisville, KY). Oral presentation.
- Jul. 2019 **Lichtenberg EM,** Gross BJ, Zilberman D, Kremen C, Lichtenberg E. “Managing pollination services: a model of substitution between wild pollinator habitat and honey bee hive rental.” International Pollinator Conference (Davis, CA). Poster.
- Dec. 2018 Campbell AJ, **Lichtenberg EM,** Cabral RB, Carvalheiro LG, Coelho BTW, Freitas MAB, Oliveira FF de, Maués MM, Menezes C, Giannini TC. “Functional traits can inform tropical bee conservation but not ecosystem services.” III Simpósio Brasileiro de Polinização (Botucato, Brazil). Oral presentation.
- Aug. 2018 **Lichtenberg EM,** Mendenhall CM, Brosi B. “Foraging traits drive outcomes of Neotropical stingless bee community disassembly under land use change.” International Union for the Study of Social Insects Congress (Guarujá, Brazil). Oral presentation.
- Mar. 2018 **Lichtenberg EM.** “Alternative food handling tactics and exploitation of pollination mutualisms: bumble bee nectar robbing decisions.” Brain, Behavior, and Evolution Seminar, University of Texas (Austin, TX). Oral presentation.
- Jan. 2018 Bronstein J, Barker JL, **Lichtenberg EM,** Richardson LL, Irwin RE. “The behavioral ecology of nectar-robbing: how alluring is ‘the Temptation to Cheat’?”

- American Society of Naturalists Annual Meeting (Asilomar, CA). Oral presentation.
- Aug. 2017 **Lichtenberg EM**, Irwin RE, Bronstein JL. "Exploitation of pollination mutualisms: Tactic constancy of nectar robbing." Ecological Society of America Annual Meeting (Portland, OR). Oral presentation
- Aug. 2017 Bronstein JL, **Lichtenberg EM**, Irwin RE. "The ecology of cheating: why nectar-rob a flower more than once?" Ecological Society of America Annual Meeting (Portland, OR). Oral presentation
- Sept. 2016 **Lichtenberg EM**, Irwin RE, Bronstein JL. "Context dependency of bumble bee nectar robbing." XXV International Congress of Entomology (Orlando, FL). Oral presentation.
- Sept. 2016 **Lichtenberg EM**, Mendenhall CM, Brosi B. "Diet breadth impacts tropical eusocial bee species' sensitivity to forest loss." International Union for the Study of Social Insects-North America Section Colloquium (Orlando, FL). Oral presentation.
- Aug. 2016 **Lichtenberg EM**, Irwin RE, Bronstein JL. "Impacts of alternative food handling tactics on bee foraging efficiencies." International Society for Behavioral Ecology Conference (Exeter, UK). Oral presentation.
- Jul. 2015 **Lichtenberg EM** and Brosi BJ. "Stingless bee species' traits alter responses to deforestation." Graduate Seminar, Rocky Mountain Biological Lab (Gothic, CO). Oral presentation.
- Aug. 2014 **Lichtenberg EM**, Nieh JC. "Eavesdropping selects for conspicuous signals." International Society for Behavioral Ecology Conference (New York, NY). Oral presentation.
- Nov. 2013 **Lichtenberg EM**, Kennedy C and Crowder D. "Effects of farming practices on local and regional abundance, richness and evenness of arthropods." Entomological Society of America Annual Meeting (Austin, TX). Oral presentation.
- Aug. 2013 **Lichtenberg EM** and Brosi BJ. "Stingless bee species' traits alter responses to deforestation." 2<sup>nd</sup> International Conference on Pollinator Biology, Health and Policy (State College, PA). Oral presentation.
- Jan. 2013 **Lichtenberg EM**, Pettis JS, Andree M, Stitzinger J, Rose R and vanEngelsdorp D. "Colony health implications of pollen and pesticide diversity in colonies rented for crop pollination." American Bee Research Conference (Hershey, PA). Oral presentation.
- Oct. 2012 **Lichtenberg EM**. "Eavesdropping on heterospecific recruitment pheromones facilitates efficient foraging by stingless bees." International Union for the Study of Social Insects-North America Section Meeting (Greensboro, NC). Oral presentation.
- Aug. 2011 **Lichtenberg EM** and Nieh JC. "Cost-effective eavesdropping between competing bee species: Empirical and theoretical support." Ecological Society of America Annual Meeting (Austin, TX). Oral presentation.
- July 2011 **Lichtenberg EM** and Nieh JC. "Fight or flight? Conflict costs drive heterospecific eavesdropping by competing stingless bees." Behavior 2011 (Bloomington, IN). Oral presentation.

- Aug. 2010 **Lichtenberg EM.** “Context-dependent eavesdropping by a dominant stingless bee species.” International Union for the Study of Social Insects Congress (Copenhagen, Denmark). Poster.
- Aug. 2009 **Lichtenberg EM, Imperatriz-Fonseca VL and Nieh JC.** “Group foraging is beneficial for stingless bees.” Ecological Society of America Annual Meeting (Albuquerque, NM). Poster.
- June 2009 **Lichtenberg EM and Nieh JC.** “Risk-sensitive eavesdropping by stingless bees.” Animal Behavior Society Annual Meeting (Pirenópolis, Brazil). Oral presentation.
- Nov. 2008 **Lichtenberg EM and Nieh JC.** “Olfactory eavesdropping mediates stingless bee foraging patterns.” Entomological Society of America Annual Meeting (Reno, NV). Oral presentation.
- July 2008 **Lichtenberg EM, Imperatriz-Fonseca VL and Nieh JC.** “Group foraging is beneficial for stingless bees.” VIII Encontro sobre Abelhas: Biodiversidade e Uso Sustentado de Abelhas (Ribeirão Preto, Brazil). Poster.
- Dec. 2007 **Lichtenberg EM and Nieh JC.** “Stingless bee competition: dominance, aggression and coexistence in a Brazilian meliponine community.” Entomological Society of America Annual Meeting (San Diego, CA). Oral presentation.
- Mar. 2007 **Lichtenberg EM and Nieh JC.** “Rethinking stingless bee competition: dominance, aggression and coexistence in a Brazilian meliponine community.” Southern California Animal Behavior Symposium (Santa Barbara, CA). Oral presentation.
- Mar. 2006 **Lichtenberg EM and Hallager S.** “Factors affecting breeding success in captive kori bustards (*Ardeotis kori*).” California Animal Behavior Symposium (San Diego, CA). Oral presentation.
- Oct. 2005 **Lichtenberg EM and Hallager S.** “Factors affecting breeding success in captive kori bustards (*Ardeotis kori*).” Section of Ecology, Behavior and Evolution retreat (San Diego, CA). Oral presentation.
- 2002-2003 **Lichtenberg EM and Wilkinson JS.** “Abdominal oscillations and status discrimination in stalk-eyed flies.”
- Undergraduate Research Day, College Park, MD, April 2003. Oral presentation.
  - 5<sup>th</sup> Undergraduate Research Symposium in the Chemical and Biological Sciences, Baltimore, MD, October 2002. Poster.
  - Animal Behavior Society Meetings, Bloomington, IN, July 2002. Poster.
  - Undergraduate Research Day, College Park, MD, April 2002. Poster.

### **RESEARCH POSITIONS**

- 2011-2015 **Research Associate** (part time), Dennis vanEngelsdorp (Department of Entomology, University of Maryland, College Park) and Jeffery Pettis (Bee Research Lab, Agricultural Research Service, US Department of Agriculture, Beltsville, MD)
- 2011-2013 **Visiting Researcher**, Department of Biology, University of Maryland, College Park
- 2005-2006 **Graduate Rotation Student**
- Ronald Burton, Scripps Institute of Oceanography – molecular techniques
  - Russell Lande, University of California, San Diego – game theory

- Sep. 2004 **Kori Bustard Behavior Research Intern**, Smithsonian National Zoological  
 -Aug. 2005 Society  
 Jan. 2001 **Undergraduate Researcher**, Gerald Wilkinson's lab, University of  
 -May 2003 Maryland, College Park  
 Summer 2000 **Research Assistant**, Gerald Borgia's lab, University of Maryland, College Park

### TEACHING EXPERIENCE

- Fall 2017 **Guest Lecturer**, "Topics & Skills for Grad-students in Biology" (BIO389D),  
 & 2018 University of Texas at Austin  
 Fall 2015 **Mentor**, "Honors Introductory Biology" (MCB181), University of Arizona  
 Spring 2014 **Primary Instructor**, "Insect Behavior" (ENTOM593), Department of  
 Entomology, Washington State University  
 Summer 2009 **Lecturer**, "English for Biologists" mini-course, Faculdade de Filosofia, Ciências  
 e Letras de Ribeirão Preto, Universidade de São Paulo  
 Summer 2008 **Lecturer**, "Uma Introdução a Estatística - Análise Prática dos Dados" mini-course  
 [Translated title: An Introduction to Statistics: Practical Data Analysis], Faculdade  
 de Filosofia, Ciências e Letras de Ribeirão Preto, Universidade de São Paulo  
 Summer 2007 **Lecturer**, "Stingless bee competition and foraging" mini-course, Faculdade de  
 Filosofia, Ciências e Letras de Ribeirão Preto, Universidade de São Paulo  
 2007-2011 **Teaching Assistant**, Division of Biological Sciences, UCSD  
 "Biodiversity," Spring 2011; "Animal Behavior and Communication," Winter  
 2011; "Introductory Ecology: Organisms and Habitats," Fall 2008; "Biometry,"  
 Fall 2007; "Animal Behavior & Communication," Spring 2007  
 2003-2004 **Peace Corps Volunteer Math Teacher**, 8<sup>th</sup> and 9<sup>th</sup> grades, Collège de Lafou,  
 Guinea, West Africa

### PROFESSIONAL TRAINING

- Oct. 2018 **Bystander training**, BeVocal, University of Texas, Austin, TX  
 Oct. 2018 **Modern R for Data Science**, Locke Data, Austin, TX  
 Oct. 2015 **Scientific Computing Skills Workshop**, University of Arizona, Tucson, AZ  
 Feb. 2014 **Transformational Women's Leadership Symposium**, Washington State  
 University, Pullman, WA  
 Aug. 2012 **Getting off the Ground with Individual-Based Modeling: A Primer for  
 Instructors and Researchers**, Ecological Society of America Annual Meeting  
 workshop, Portland, OR  
 2009 **The Bee Course**, American Museum of Natural History, Portal, AZ  
 Winter 2007 **Tropical Rainforest and Canopy Ecology**, Institute for Tropical Ecology and  
 -2008 Conservation, Bocas del Toro, Panama

### UNDERGRADUATES MENTORED

\*Under-represented group, +Female, <sup>G</sup>Now in or completed graduate school

- 2018 Jaclyn Heiser<sup>+</sup> - "*Analysis of Pollinator and Plant Diversity and Abundance  
 Across the Southern Plains Region*"; Capstone Research Project  
 2017 Kathleen Dunleavy<sup>+</sup> - "*Bee behavior and foraging tactics while gathering nectar*"  
 2016 Karen Wang<sup>\*,+</sup> - "*Does bee body size affect flower handling?*"; NSF REU Project  
 2014 Laura Rafferty<sup>+</sup> - Horticulture Intern



- 2014 Bryla Jones<sup>+</sup> – "*Interactions between predators and bees on canola*"; WSU  
Funded Internship
- 2010-2012 Kyle Burks<sup>G</sup> – "*Function and chemistry of bumble bee labial gland secretions*"
- 2006 Shawn Kessler – "*Pattern discrimination by stingless bees*"
- Research assistants: Llewyn Blossfeld<sup>+</sup>, John Bosak, Kelsey Brennan<sup>+</sup>, Isabel Brofsky<sup>+,G</sup>,  
Shannon Dang<sup>\*,+</sup>, Kayla Fillion<sup>\*,+</sup>, Emily Graber<sup>+</sup>, Bridget Harter<sup>+</sup>, Jaclyn Heiser<sup>+</sup>, Hayley  
Hunter-Zinck<sup>+,G</sup>, Rhiana Jones<sup>\*,+</sup>, Michael Joseph, Angie Kemsley<sup>+</sup>, Shawn Kessler, Elizabeth  
Lopez<sup>\*,+</sup>, Hannah Niland<sup>+</sup>, Cody Phillips, Laura Rafferty<sup>+</sup>, Tin Rodriguez<sup>\*</sup>, Isaac Rubenstein<sup>\*</sup>,  
Kyle Simpson, Gavin Smetzler, Shelbie Spalding<sup>+</sup>, Michael Stemkovski, Katie Strain<sup>+</sup>,  
Savannah Troy<sup>+</sup>, Sam Wilhelm, Caity Winterbottom<sup>+,G</sup>, Kate Wynne<sup>+</sup>

### **SCIENTIFIC MEMBERSHIPS**

Animal Behavior Society  
Association for Women in Science  
Ecological Society of America  
Entomological Society of America  
International Union for the Study of Social Insects

### **SERVICE**

#### Departmental/University

- 2016-2017 **Chair**, UA Postdoc Association Postdoc Guide Committee
- 2016-2017 **Founder and Organizer**, UA EEB Statistics and R Group
- 2016-2017 **Postdoctoral representative**, Department of Ecology and Evolutionary Biology,  
The University of Arizona
- 2008-2010 **Admissions Committee Member**, Division of Biological Sciences, UCSD
- 2007-2011 **Graduate student liaison**, Section of Ecology, Behavior and Evolution, Division  
of Biological Sciences, UCSD
- 2007-2008 **Graduate Student Association Representative**, UCSD

#### Workshops and Symposia

- 2016 **Organizer**, Recruiting Diversity Working Group, UA Women in Natural Sciences
- 2015 **Organizer, Symposium**, Annual Meeting of the Pacific Branch of the  
Entomological Society of America (Symposium Title: Celebrating Pollination  
Biology in Changing Landscapes)
- 2014 **Organizer, Section Symposium**, Entomology 2014 (Symposium Title:  
Entomology's Role in Sustaining Ecosystem Services in Agroecosystems)
- 2013, 2014 **Instructor, CV workshop**, Department of Entomology, Washington State  
University
- 2010 **Organizer, English conversation practice group**, Faculdade de Filosofia,  
Ciências e Letras de Ribeirão Preto, Universidade de São Paulo
- 2009-2011 **Translator (French to English)**, Alliance Guinea

#### Reviewing

- 2018 **Grant reviewer**, UK Natural Resource Environmental Council Newton Fund
- 2017, 2018 **Student Grant Reviewer**, Animal Behavior Society
- 2010-2011 **Scholarship Committee**, Association for Women in Science San Diego Chapter

2006-present **Manuscript reviewer** for: *Acta Zoológica Mexicana, Animal Behaviour, Annals of Botany, Apidologie, Behavioral Ecology and Sociobiology, Biological Control, Ecological Entomology, Ethology, Journal of Comparative Physiology A, Journal of Ecology, Journal of Economic Entomology, Journal of Pollination Ecology, Neotropical Entomology, PLOS ONE, Psyche, Revista Colombiana de Entomologia, Sociobiology*

### **OUTREACH AND SCIENCE EDUCATION**

2018-present **Founder and Moderator**, “STEM diversity inclusion resources” Slack workspace (<https://stemdiversityresource.slack.com/>)

2018 **Volunteer**, Jean Andrews Lecture and Outreach Fair, Austin, TX

2015, 2016 **Volunteer**, "Pollinator Paradise," Arizona Insect Festival, Tucson, AZ

2014-2015 **Planning Committee Member and Presenter**, Improving Your Farm with Insects: Attracting and Managing Beneficials and Pollinators, Moscow, ID

2011-2012 **Organizer**, All Things Bugs (prepared part of the Entomology section for the 2012 USA Science and Engineering Festival in Washington, D.C.)

2009 **Lab host**, Young Black Scholars visit to UC San Diego

2006-2011 **Judge**, Association of Women in Science professional society awards, Greater San Diego Science & Engineering Fair

2006 **Mentor**, Expanding Your Horizons conference, San Diego, CA

### **SOCIAL MEDIA**

**Lichtenberg EM**, Kessler S (research assistant). Jun. 2014. "Stingless bees fighting over a food source." YouTube video. <https://www.youtube.com/watch?v=2315f1M3pvA>.

- Used by instructors in undergraduate courses

**Lichtenberg EM**. Sep. 2013. "Tropilaelaps Mites, Part 2." Bee Informed Partnership blog. <http://beeinformed.org/2013/09/tropilaelaps-mites-part-2/>.

### **MEDIA COVERAGE**

**Lichtenberg EM**. Jan. 2018. Interview and ongoing research discussed in the Sherman-Denison Herald Democrat: <http://www.heralddemocrat.com/news/20180125/hagerman-holds-control-burn-for-wildlife-research>.

**Lichtenberg EM** and colleagues. 2014. “Eavesdropping selects for conspicuous signals” covered by The Eastern Tribune, The Examiner, Entomology Today, Tech Times

Pettis JM, **Lichtenberg EM** and colleagues. 2013. “Crop pollination exposes honey bees to pesticides which alter their susceptibility to the gut pathogen *Nosema ceranae*” coverage included NBC, US News & World Report, Los Angeles Times, Ag Information Network, Mother Jones, University Herald, Business Week, Bloomberg News, French Tribune, TakePart (>30 outlets in total)