

DAREN MICHAEL EIRI

eiri@utexas.edu

EDUCATION

Institution & Location	Degree Received	Year Conferred	Field of Study
University of Texas, Austin	Doctor of Philosophy	(withdrawal)	Ecology, Evolution, and Behavior
University of California, San Diego	Master of Science	2011	Biology
University of California, San Diego	Bachelor of Science	2009	Ecology, Behavior and Evolution

ACADEMIC APPOINTMENTS

- Sept. 2013 – Oct. 2014 **Graduate Student, PhD**, *University of Texas, Austin, TX*
- Honey bees and their gut microbiome (advisor, Dr. Nancy Moran). Withdrawal for personal reasons.
- Oct. 2011 – July 2013 **Independent Scholar**, *University of California, San Diego, CA*
- Honey bee larvae infection (*in vitro*) with *Nosema ceranae* and adult longevity.
- June – Sept. 2011 **Research Fellow**, *Burapha University, Bangsaen, Chonburi, Thailand*
- The use of propolis against *Nosema ceranae* infection in Asian honey bees (*Apis cerana* and *A. florea*) (advisor, Dr. Guntima Suwannapong).
- June 2009 – June 2011 **Graduate Student, MS**, *University of California, San Diego, CA*
- Honey bee foraging behavior and neonicotinoid exposure (advisor, Dr. James Nieh).

PEER-REVIEWED PUBLICATIONS

- Eiri DM**, Suwannapong G, Endler M, Nieh JC. (2015) *Nosema ceranae* Can Infect Honey Bee Larvae and Reduces Subsequent Adult Longevity. **PLOS ONE**. 10.1371/journal.pone.0126330
- Eiri, DM**, Nieh, JC. (2012) A nicotinic acetylcholine receptor agonist increases honey bee sucrose response thresholds and decreases recruitment dancing. **Journal of Experimental Biology**. 215, 2022-2029.

PUBLISHED ABSTRACTS

- Eiri, DM**, Suwannapong, G., Endler, M, Nieh, JC. (2014) *Nosema ceranae* can infect honey bee larvae and reduce subsequent adult longevity. American Bee Research Conference, San Antonio, TX. American Bee Journal. April 2014.
- Eiri, DM**, Nieh, JC. (2010) Sublethal doses of the pesticide imidacloprid alter honey bee (*Apis mellifera*) response threshold and optic flow, potentially affecting colony health. 10th Annual North American Pollinator Protection Campaign Conference, Washington D.C..

GRANTS

- Oct. 2014 **Foundation for the Preservation of Honey Bees, Inc** Research grant (\$2,750)
- Daren Eiri**. “Uncovering the role of gut microbes associated with honey bees.” Declined.
- Dec. 2012 **California State Beekeepers Association** Research grant (\$4,000)
- James Nieh and **Daren Eiri**. “Activating honey bee immunity against *Nosema* disease: a pilot experiment.”
- Jan. 2012 **National Honey Board** Research grant (\$9,010)
- Daren Eiri**, Guntima Suwannapong, and James Nieh. “How does *Nosema* infection affect larval development and queen production?”

- Oct. 2010 **NAPPC Honey Bee Health Grant (\$5,000)**
- James Nieh and **Daren Eiri**. CCD and the empty-colony syndrome: effect of the pesticide imidacloprid on honey bee distance estimation.

SELECT PRESENTATIONS/INVITED TALKS

- June 2014 **Press Conference Participant, Environment Texas, Austin, TX**
- Invited speaker for press conference event, hosted by the Environment Texas, a non-profit organization, which released a new report focused on the use of neonicotinoids on ornamental, “bee-friendly” plants, sold at home and garden stores through the U.S. and Canada.
- June 2014 **Honey Bee Summer Clinic, Texas A&M University, College Station, TX**
- Speaker. *Profiling the Queen Gut Microbiota*
- May 2014 **Integrative Biology Graduate Student Research Symposium, UT Austin, Austin, TX**
- Speaker. *Long live the queen! How current queen rearing practices may affect the queen gut microbiota.*
- Jan. 2014 **American Bee Research Conference, San Antonio, TX**
- Speaker. *Nosema ceranae can infect honey bee larvae and reduce subsequent adult longevity*
 ❖ Recipient of Best Student Paper Award.
- Nov. 2012 **Entomological Society of America Annual Meeting, Knoxville, TN**
- Speaker. *In vitro Nosema ceranae infection on honey bee larvae results in infection as adults and higher mortality rate.*
 ❖ Recipient of President’s Prize for 10-minute Paper Competition.
- June 2012 **National Pollinator Week, San Diego Beekeeping Society, Balboa Park, San Diego, CA**
- Speaker. *Essential Pollinators: Native Bees and Honey Bees*
- July 2011 **Chulalongkorn University, Department of Biology, Bangkok, Thailand**
- Speaker. *The effects of sublethal doses of imidacloprid on honey bee (*Apis mellifera*) foraging behavior*
- July 2011 **Burapha University, Department of Biology, Chonburi, Thailand**
- Speaker. *The effects of sublethal doses of imidacloprid on honey bee (*Apis mellifera*) foraging behavior*
- June 2011 **Biological Sciences Student Research Showcase, UC San Diego, San Diego, CA**
- Poster. *“Sublethal doses of the pesticide imidacloprid alter honey bee (*Apis mellifera*) response threshold and foraging behavior”*
- Dec. 2010 **Entomological Society of America Annual Meeting, San Diego, CA**
- Poster. *“Picky eater syndrome: The pesticide imidacloprid alters honey bee (*Apis mellifera*) sucrose response threshold and, potentially, colony health”*
- Oct. 2009/Nov. 2010 **Santa Ana Community College, Santa Ana, CA**
- Guest lecturer. *Colony Collapse Disorder and honey bees*
- Nov. 2010 **Environmental Protection Agency, Office of Pesticide Programs, Washington, D.C.**
- Invited speaker. *Picky eaters and poor navigators: The pesticide imidacloprid alters honey bee (*Apis mellifera*) sucrose response threshold and search distance estimation*
- Oct. 2010 **North American Pollinator Protection Campaign, USDA, Washington, D.C.**
- Speaker. *Picky eaters and poor navigators: The pesticide imidacloprid alters honey bee (*Apis mellifera*) sucrose response threshold and search distance estimation*
- June 2010 **Biological Sciences Student Research Showcase, UC San Diego, San Diego, CA**
- Poster. *“Picky eater syndrome: The pesticide imidacloprid alters honey bee (*Apis mellifera*) sucrose response threshold and, potentially, colony health”*

MANUSCRIPT REVIEWER

- Journal of Experimental Biology

TEACHING EXPERIENCE

Aug. 2013 – May 2014 **Graduate Teaching Assistant**, *University of Texas, Austin, CA*

- Experimental Physiology Lab (with Dr. Peter English)
 - ❖ Recipient of TA of the Month from the UT Senate of College Councils.

June – Aug. 2011 **English teacher for Biology Undergraduates**, *Burapha University, Chonburi, Thailand*

- English conversation class on scientific topics

Sept. 2010 – Apr. 2011 **Mentor**, *Middle School Science Fair Project*

- Mentor to San Diego Jewish Academy (CA) middle school student; awarded first place for science fair project at Greater San Diego Science and Engineering Fair; received \$500 San Diego Zoo Global Society award; awarded second place in California state competition.

Jan. 2010 – July 2011 **Graduate Teaching Assistant**, *University of California, San Diego, CA*

- Animal Behavior and Communication (with Dr. James Nieh)
 - ❖ Recipient of TA of the Year from the Division of Biological Sciences.
- Animal Behavior and Communication Lab (with Dr. James Nieh)
- Conservation and the Human Predicament (with Dr. David Woodruff and Dr. Shirley Strum)
- Ecology Lab (with Dr. Heather Henter)

Mar. – June 2009 **Undergraduate Teaching Assistant**, *University of California, San Diego, CA*

- Conservation and the Human Predicament (with Dr. David Woodruff and Dr. Shirley Strum)