Jessica (Jessie) Ebie

(She/Her/Hers)
School of Life Sciences
The College of Liberal Arts and Sciences
Arizona State University
jebie@asu.edu | www.iseelab.org

EDUCATION

PhD in Animal Behavior 2020

Arizona State University, Tempe, AZ

- Animal Behavior Dissertation: Mechanistic diversity in long-range regulation of worker reproduction in polydomous ant species. Advisors: Dr. Jürgen Liebig and Dr. Bert Hölldobler

MS in Biology 2012

University of Cincinnati, Cincinnati, OH

- Biology Thesis: The role of sensory systems in directional perception of the fiddler crab *Uca pugilator*. Advisor: Dr. John Layne

BA in Biology and Psychology, Cum Laude 2004

Wittenberg University, Springfield, OH

- University Honors, Departmental Honors in Psychology, Departmental Honors in Biology
- Biology Honors Thesis: Response to light by the hermit crab *Clibanarius tricolor* at North Point, San Salvador, Bahamas. Co-author: Adrianna Zito-Livingston
- Thesis: The effect of gonadal hormones, estrogen and testosterone, on the navigational abilities of male and female Sprague-Dawley rats

ACADEMIC APPOINTMENTS

Assistant Director of Masters Programs August 2026 – Present
School of Life Sciences Arizona State University, Tempe, AZ

Associate Teaching Professor August 2023 – Present
School of Life Sciences Arizona State University, Tempe, AZ
Workload: 70% Teaching: 30% Service (August 2026 – Present)
Workload: 80% Teaching: 20% Service (August 2023 – July 2026)

Residential Faculty (tenure track) August 2020 – May 2023
Life Sciences Division Estrella Mountain Community College, Avondale, AZ
Workload: 80% Teaching: 20% Service

Instructor August 2018 – July 2020
School of Life Sciences Arizona State University, Tempe, AZ
Workload: 100% Teaching
Hired as full-time faculty while completing the PhD in Animal Behavior

Adjunct Faculty January 2016 – May 2016
Department of Biology Scottsdale Community College, Scottsdale, AZ

PROFESSIONAL EXPERIENCE

Australia Awards – Endeavour Research Fellow February 2018 – August 2018
Australian Government Department of Education James Cook University, Townsville, QLD, AUS

Instructor of Record August 2016 – December 2016
School of Life Sciences Arizona State University, Tempe, AZ

Instructor of Record August 2013 – December 2013
School of Life Sciences Arizona State University, Tempe, AZ

Laboratory Manager July 2007 – August 2009
Cardiopulmonary Behavioral Medicine Lab
Department of Psychology The Ohio State University, Columbus, OH
- Supervisor: Charles Emery

Conservation Education Overnight Counselor March 2007 – December 2007
Conservation Education Columbus Zoo and Aquarium, Columbus, OH

Research Technician November 2005 – July 2007
Limnology Laboratory
Evolution, Ecology, and Organismal Biology Department The Ohio State University, Columbus, OH
- Supervisor: David Culver

Marine Education and Aquarium Intern September 2004 – August 2005
Marine Extension Services University of Georgia, Savannah, GA

Marine Ecology Intern May 2003 – August 2003
Marine Ecology Lab Dauphin Island Sea Lab, Dauphin Island, AL
- Supervisor: Ken Heck

TEACHING EXPERIENCE

33 unique courses taught · 26 undergraduate, 6 graduate, and 1 dual graduate/undergraduate courses · 13 online, 24 immersion, and 2 study abroad · 7 courses developed · 5,576 students enrolled.

Course	Level	Modality	Sections	Enrollment
Associate Teaching Professor – Arizona State University				
Fall 2026				
BIO 340: General Genetics	Undergrad	Online	2	450
BIO 494: Special Topics: Mentored Undergraduate Teaching Experience (Lecture)	Undergrad	Online	1	1
BIO 495: Undergraduate Research	Undergrad	Immersion	1	1
BIO 495: Undergraduate Research	Undergrad	Online	1	1
BIO 598: Special Topics: Biology of Social Insects	Grad	Immersion	1	10
BIO 541: School of Life Sciences (SOLS) Seminar Series – Course Development	Grad	Online	Development	
BIO 541: SOLS Seminar Series – Course Development	Grad	Immersion	Development	
BIO 542: SOLS Current Topics – Course Development	Grad	Online	Development	
BIO 542: SOLS Current Topics – Course Development	Grad	Immersion	Development	
Summer 2026				
BIO 394: Special Topics: Conservation in Australia/Fiji – Study Abroad	Undergrad	Study abroad	1	14
Spring 2026				
ANB 602: Current Issues In Behavior	Grad	Immersion	1	5
BIO 493: Honors Thesis (Research)	Undergrad	Immersion	1	2
BIO 495: Undergraduate Research		Immersion	1	2
BIO 597: Capstone	Grad	Online	1	87
BIO 597: Capstone	Grad	Immersion	1	25
BIO 598: Special Topics: Biology of Social Insects	Grad	Immersion	1	6
BIO 340: General Genetics	Undergrad	Online	2	370
BIO 394: Special Topics: Conservation in Australia/Fiji – Study Abroad	Undergrad	Study Abroad	2	14

Course	Level	Modality	Sections	Enrollment
Fall 2025				
BIO 340: General Genetics	Undergrad	Online	1	210
BIO 597: Capstone	Grad	Online	1	10
BIO 597: Capstone	Grad	Immersion	1	40
BIO 598: Special Topics: Biology of Social Insects	Grad	Immersion	1	9
BIO 495: Undergraduate Research	Undergrad	Online	1	2
BIO 495: Undergraduate Research	Undergrad	Immersion	1	1
BIO 494: Special Topics: Mentored Undergraduate Teaching Experience (Lecture)	Undergrad	Online	1	1
BIO 492: Honors Directed Study	Undergrad	Immersion	1	2
Summer 2025				
BIO 394: Special Topics: Conservation in Australia/Fiji – Study Abroad	Undergrad	Study Abroad	1	14
Spring 2025				
BIO 340: General Genetics	Undergrad	Online	2	361
BIO 597: Capstone	Grad	Online	1	32
BIO 598: Special Topics: Biology of Social Insects	Grad	Immersion	1	10
BIO 499: Individualized Instruction	Undergrad	Immersion	1	1
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Online	3	5
BIO 495: Undergraduate Research	Undergrad	Immersion	1	4
Fall 2024				
BIO 340: General Genetics	Undergrad	Online	1	236
BIO 597: Capstone	Grad	Online	1	13
BIO 598: Special Topics: TA Preparation for Life Science Courses	Grad	Online	1	54
BIO 598: Special Topics: Dimensions of Complex Systems	Grad	Immersion	1	9
BIO 499: Individualized Instruction	Undergrad	Online	1	1
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Online	2	6
BIO 495: Undergraduate Research	Undergrad	Immersion	1	4
Summer 2024				
BIO 394: Special Topics: Conservation in Belize – Study Abroad	Undergrad	Study Abroad	2	13

Course	Level	Modality	Sections	Enrollment
Spring 2024				
BIO 194: Special Topics: Conversing with SOLS Faculty – Course Development	Undergrad	Online	1	
BIO 194: Special Topics: Conversing with SOLS Faculty	Undergrad	Online	1	23
BIO 194: Special Topics: Conversing with SOLS Faculty – Course Development	Undergrad	Immersion	Development	
BIO 194: Special Topics: Conversing with SOLS Faculty	Undergrad	Immersion	1	21
BIO 597: Capstone – Course Development	Grad	Online	Development	
BIO 597: Capstone	Grad	Online	1	19
BIO 590: Reading & Conference: Mentoring Future Instructional Faculty	Grad	Immersion	1	1
Fall 2023				
ANB 602: Current Issues In Behavior	Grad	Immersion	1	5
BIO 181: Introduction to biology for majors I (Lecture)	Undergrad	Immersion	1	400
BIO 598: TA Prep for Life Sciences Courses – Course Development	Grad	Immersion	Development	
BIO 340: General Genetics	Undergrad	Online	1	302
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Online	Development	1
Residential Faculty (tenure track) – Estrella Mountain Community College				
Spring 2023				
Bio 181XT: Introduction to biology for majors I (Lecture, Lab, and XT Session)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	1	24
Fall 2022				
Bio 181XT: Introduction to biology for majors I (Lecture, Lab, and XT Session)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	1	24

Course	Level	Modality	Sections	Enrollment
Spring 2022				
Bio 181XT: Introduction to biology for majors I (Lecture, Lab, and XT Session)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Immersion	1	24
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	1	24
Fall 2021				
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	3	72
Bio 181XT: Introduction to biology for majors I (Lecture, Lab, and XT Session)	Undergrad	Immersion	1	24
Spring 2021				
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	2	48
Bio 181: Introduction to biology for majors I (Lecture and Lab)	Undergrad	Online	2	48
Fall 2020				
BIO 100: Introductory biology for nonmajors (lecture and lab)	Undergrad	Online	2	48
BIO 100: Introductory biology for nonmajors (lecture and lab) – Course Development	Undergrad	Online	Development	
Instructor – Arizona State University				
Summer 2020				
BIO 282: Conceptual Approach Bio Majors II (Integrated Lecture/Lab)	Undergrad	Online	1	24
BIO 282: Conceptual Approach Bio Majors II (Integrated Lecture/Lab) – Course Development	Undergrad	Online	Development	
Spring 2020				
BIO 282: Conceptual approaches for biology majors II	Undergrad	Immersion	4	379
BIO 494: Topic: Gut-The Inside Story of Our Body's Most Underrated Organ	Undergrad	Immersion	1	11
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Immersion	1	4
BIO 493: Honors Thesis (Research)	Undergrad	Immersion	1	1

Course	Level	Modality	Sections	Enrollment
Fall 2019				
BIO 281: Conceptual approaches for biology majors I	Undergrad	Immersion	4	480
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Immersion	1	4
BIO 492: Honors Directed Study	Undergrad	Immersion	1	1
BIO 495: Undergraduate Research	Undergrad	Immersion	1	3
Summer 2019				
BIO 182: General Biology II (Integrated Lecture/Lab)	Undergrad	Online	2	213
BIO 495: Undergraduate Research	Undergrad	Immersion	1	6
Spring 2019				
BIO 281: Conceptual approaches for biology majors I – Lecture	Undergrad	Immersion	2	264
BIO 281: Conceptual approaches for biology majors I – Recitation	Undergrad	Immersion	5	264
BIO 331: Animal Behavior	Undergrad	Immersion	1	170
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Immersion	1	4
BIO 495: Undergraduate Research	Undergrad	Immersion	1	4
Fall 2018				
BIO 432: Why do we cheat, steal, and lie?	Undergrad	Online	1	97
BIO 494: Topic: Advanced Study Practicum: Lecture	Undergrad	Online	1	1
BIO 282: Conceptual approaches for biology majors II – Lecture and recitations Instructor of Record – Arizona State University	Undergrad	Immersion	1	152
Fall 2016				
BIO 151: Biological thinking for majors Adjunct Faculty – Scottsdale Community College	Undergrad	Immersion	3	201
Spring 2016				
BIO 182: Introductory biology for majors II (lecture and lab)	Undergrad	Immersion	1	24

Course	Level	Modality	Sections	Enrollment
Instructor of Record – Arizona State University				
Fall 2013				
BIO 435/ANB 601: Research Techniques in Animal Behavior co-taught with Ron Rutowski	Undergrad/Grad	Immersion	1	15

GRADUATE STUDENT MENTORING

3 graduate students co-chaired, 2 as committee member.

5. **Hannah Ivester** — Aug 2025 – Present
   Plant Biology and Conservation MS · Co-chair
4. **Beth Ponn** — Aug 2024 – Present
   Animal Behavior PhD · Co-chair
3. **Kajaya Pollard** — Aug 2024 – Present
   Animal Behavior PhD · Co-chair
   - National Science Foundation Graduate Research Fellowship Program (NSF-GRFP) Recipient
2. **Anoushka Dasgupta** — Aug 2024 – Present
   Animal Behavior PhD · Committee Member
1. **Victoria Kent** — Aug 2023 – May 2025
   Biology MS · Committee Member

UNDERGRADUATE STUDENT MENTORING

84 undergraduate students mentored · 44 undergraduate teaching assistants · 6 honors theses, 4 as director · 12 honors enrichment contracts · 31 research students.

HONORS THESIS

Role	Years	Theses
Director	2019 – Present	4
Second Reader	2023 – 2024	2

UNDERGRADUATE TEACHING ASSISTANTS

Course	Terms	Students
BIO 340: General Genetics	Fall 2023 – Present	21
Bio 181: Introduction to biology for majors I	Fall 2021 – Fall 2023	4
Bio 281: Conceptual approaches for biology majors I	Fall 2019, Spring 2020, Fall 2020	9
Bio 282: Conceptual approaches for biology majors II	Fall 2018, Spring 2020	3
Bio 432: Why do we cheat, steal, and lie?	Fall 2018	1
Bio 151: Biological thinking for majors	Fall 2017	6

UNDERGRADUATE RESEARCH STUDENTS

Major	Years	Students
Biological Sciences (Conservation Biology and Ecology)	2012 – Present	10
Biological Sciences (Biomedical Sciences)	2019 – Present	5
Biological Sciences	2011 – 2019	12
Other majors	2017 – Present	4

HONORS ENRICHMENT CONTRACT STUDENTS

Course	Terms	Students
BIO 340: General Genetics	Spring 2025, Spring 2026, Fall 2026	3
BIO 181: Introduction to biology for majors I	Fall 2023	9

SERVICE

48 service appointments, 14 of them leadership roles: 28 to SOLS, 6 to The College, 12 to Arizona State University (ASU), and 2 to the profession.

SCHOOL OF LIFE SCIENCES

School of Life Sciences Peer Teaching Evaluator Inaugural Cohort — Feb 2026 – May 2026

American Association for the Advancement of Science (AAAS) tabling for Biology MS Graduate Program Recruitment — Feb 2026

Co-facilitator; School of Life Sciences Academic Integrity Discussions for Faculty and Spring Retreat Workshop — Spring 2026

Co-leader; Animal Behavior Innovation Network Faculty Innovation Group Co-Leader — Aug 2025 – May 2026

Co-leader; Innovative Strategies for Pedagogy, Inclusion, & Retention Excellence (INSPIRE) Faculty Innovation Group — Aug 2025 – May 2026

School of Life Sciences Faculty Innovation Group Council — Aug 2025 – May 2026

Facilitator; SOLS Shoal, the School of Life Sciences faculty mentoring group — August 2025 – Present

- Ten career-track faculty, meeting monthly on whatever members bring forward
- Built an extensive set of shared resources for the group
- Monthly community-building socials

School of Life Sciences Faculty Peer Mentor — Jan 2025 – Present

- Primary mentor:
  - Michael Britton, Associate Teaching Professor (May 2025 – Present)
  - Abigail Howell, Assistant Teaching Professor (August 2025 – Present)
  - Maya Shamsid-Deen, Assistant Teaching Professor (August 2025 – Present)
  - Piyumika Suriyampola, Assistant Teaching Professor (August 2024 – Present)
- Secondary mentor:
  - Michelle Di Palma, Assistant Teaching Professor (March 2026 – Present)
  - Xyonane Segovia, Assistant Teaching Professor (March 2026 – Present)
  - Shayla Victoria, Instructor (March 2026 – Present)

Peer Teaching Evaluation for Christopher Rojas — Spring 2025

Chair; Ecology and Evolution Assistant Teaching Professor Hiring Committee — Nov 2024 – Mar 2025

Computational Life Sciences Assistant Teaching Professor Hiring Committee — Nov 2024 – Mar 2025

Peer Teaching Evaluation for Dr. Adrian Fisher II — Feb 2024

School of Life Sciences Social Insect Research Group (SIRG) Seminar Speaker: Teaching in grad school and how to make a career of it — Feb 2024

School of Life Sciences Bioethics Breakfast Club Speaker (What happens when biologists think of sex as binary? with Melissa Wilson) — Feb 2024

Program Director; School of Life Sciences Biology MS — Jan 2024 – June 2026

School of Life Sciences Graduate Program Committee — Jan 2024 – Present

Computational Life Sciences Assistant Teaching Professor Hiring Committee — Jan 2024 – May 2024

Evolutionary Medicine Assistant Teaching Professor Hiring Committee — Jan 2024 – May 2024

Peer Teaching Evaluator for Dr. Zachary Shaffer — Oct 2023

Neuroscience, Behavior, and Physiology Undergraduate Program Assessment Committee — Oct 2023

Founder and Advisor; School of Life Sciences BioBanter — Aug 2023 – Mar 2025

School of Life Sciences Career Track Faculty Steering Committee — Aug 2023 – Dec 2024

Re-imagining School of Life Sciences Communication Working Group — Aug 2023 – Dec 2023

School of Life Sciences Spring Education Retreat Discussion Leader — Jan 2020

School of Life Sciences Advisory Committee Member — Spring 2020

School of Life Sciences Bio 281/282 BioSpine Committee — May 2019 – Aug 2020

SOLS Spring Assembly Presenter: "How can we actively engage students in courses?" — Spring 2019

Undergraduate biology degree learning outcomes alignment committee — Spring 2017

THE COLLEGE OF LIBERAL ARTS AND SCIENCES

Presiding Officer; The College of Liberal Arts and Sciences Senate — August 2026 – Present

Presiding; The College of Liberal Arts and Sciences Senate — Aug 2025 – May 2026

Senator; The College of Liberal Arts and Sciences Senate — August 2025 – Present

Founder and Organizer; The College of Liberal Arts and Sciences Transfer Forward Program (formerly STEM Day of Discovery) — Jan 2025 – Present

The College Futures Initiative: Majors-only courses for First-Year Students/Transfer Students — Feb 2024

The College of Liberal Arts and Sciences Digital Initiatives Committee — Aug 2023 – Dec 2023

ARIZONA STATE UNIVERSITY

Leader; ASU Career Faculty Association Faculty Success Series Workshop: Individual Development Plan (IDP) and Building Mentoring Networks — Oct 2026

Past President; ASU Career Faculty Association — August 2026 – Present

- Launched the inaugural year of the Career Faculty Association (CFA) Mentoring Circle program.
- Hosted a CFA Leadership Dialogue with May Busch, former COO of Morgan Stanley Europe, on her book Visible: How to Advance Your Career Without Playing Politics, Selling Your Soul, or Working Yourself into the Ground.

Panelist; Launching Leaders Program: Career Track Faculty Panel — Nov 2025

- Panel for newly appointed academic administrators on the work of career-track faculty and how to support their career growth.

President; ASU Career Faculty Association — Aug 2025 – May 2026

- Founded the CFA Outstanding Career Faculty Awards Program, the association's first.
- Three awards in each of the main categories – teaching, service and research – drawn from ASU's charter values and design aspirations
- 244 nominations for 160 nominees, 150 of whom submitted packets
- 15 recipients honored at the association's first awards reception, April 2026
- Membership grew from about 100 to more than 600 during the term.
- Hosted monthly Coffee Chats to help faculty from across ASU connect
- Organized 8 professional development workshops and panels for career faculty across ASU

University Senate Grievance Committee — Aug 2025 – August 2026

Vice President; ASU Career Faculty Association — Aug 2024 – Jul 2025

Student Success Workshop – Integrating Career-Readiness and High Impact Practices into The College's Undergraduate Degree Programs — Oct 2023

ASU Career Faculty Association Organizing Committee — Sept 2023 – Aug 2024

Faculty and Academic Professional Search Workshop — Sept 2023

Undergraduate Welcome Panelist — Aug 2023

Student Engagement Lunch and Learn Panelist — Nov 2019

Research Grant Reviewer, Graduate Student and Professional Association — 2016

SERVICE TO THE PROFESSION

Entomology 2024 Symposium Organizer: Neurophysiological Basis of Olfactory Communication and Odor Detection in Insects — Nov 2024
Entomological Society of America

External letter of promotion case for assistant to associate teaching professor for College of Integrative Sciences and Arts (CISA) ASU — Sept 2024

AWARDS

- Professional Achievement
  - The College of Liberal Arts and Sciences Marshal
  - Alumni Professional Achievement Award
- Teaching and Mentoring
  - ASU Career Faculty Association Outstanding Career Faculty Teaching Award
  - The College of Liberal Arts and Sciences Outstanding Career-Track Faculty Teaching Award in the Division of Natural Sciences
  - 7 Sun Awards
  - Faculty Women's Association Mentoring Award
  - 7 Professor of Impact Awards
  - School of Life Sciences Inclusive Teaching Fellowship
  - SOLS Award
  - Graduate Mentor Award
  - Teaching Excellence Award
- Service
  - Sun Award
- Research
  - The College of Liberal Arts and Sciences Graduate Excellence Award
  - The College of Liberal Arts and Sciences Dean's Student Success Award
  - 2 Outstanding Presentation Awards
  - Summer Scholarship
- Nominations
  - for ASU Career Faculty Association Outstanding Career Faculty Service Award
  - for The College of Liberal Arts and Sciences Outstanding Instructor Award

PROFESSIONAL ACHIEVEMENT

2026 The College of Liberal Arts and Sciences Marshal, Arizona State University
Selected by the Dean to carry the college gonfalon in the Commencement processional, May 11, 2026

2024 Alumni Professional Achievement Award, Wittenberg University

TEACHING AND MENTORING

2026 ASU Career Faculty Association Outstanding Career Faculty Teaching Award for Enabling Student Success

2026 The College of Liberal Arts and Sciences Outstanding Career-Track Faculty Teaching Award in the Division of Natural Sciences; $1000.00

2026 Sun Award for supporting students, Arizona State University
For supporting an online student in crisis and connecting them with support, February 2026

2026 Sun Award for faculty mentoring, Arizona State University
For mentorship, advocacy and leadership with a first-semester instructor, January 2026

2026 Faculty Women's Association Mentoring Award

2026 Professor of Impact Award, Arizona State University
Student recognition for mentoring, flexibility and motivating students, BIO 340: General Genetics, May 2026

2026 Professor of Impact Award, Arizona State University
Student recognition for mentoring, inspiring the class and supporting student success, February 2026

2026 Professor of Impact Award, Arizona State University
Student recognition for mentoring in the Biology MS program, February 2026

2026 Professor of Impact Award, Arizona State University
Student recognition for mentoring and supporting a student through a difficult semester, BIO 340: General Genetics, February 2026

2026 Sun Award for supporting students, Arizona State University
For creating a helpful guide and website to prepare students for BIO 340, October 2026

2026 Sun Award for supporting students, Arizona State University
For the BIO 340 Course Success Guide, a resource for online advisors helping students prepare for the course, October 2026

2026 Sun Award for supporting students, Arizona State University
For creating a helpful document for student success in BIO 340, October 2026

2026 Professor of Impact Award, Arizona State University
Student recognition for mentoring, inspiring the class and flexibility with students, BIO 340: General Genetics, October 2026

2025 Sun Award for faculty mentoring, Arizona State University
For being an exemplary peer mentor, September 2025

2025 Professor of Impact Award, Arizona State University
Student recognition for research mentoring, BIO 495, December 2025

2024 School of Life Sciences Inclusive Teaching Fellowship; Summer Salary

2024 Professor of Impact Award, Arizona State University
Student recognition for mentoring and inspiring the class, University College, April 2024

2024 Sun Award for supporting a student research project, Arizona State University
For advising a student on the Daedalus Project, School of Life Sciences, April 2024

2019 Finalist for The College of Liberal Arts and Sciences Outstanding Instructor Award, Arizona State University, College of Liberal Arts and Sciences

2019 SOLS Award for Excellence and Innovation in Teaching, Arizona State University, School of Life Sciences.; $1000.00

2016 Graduate Mentor Award, Graduate and Professional Student Association, Arizona State University; $500.00

2016 Teaching Excellence Award, Graduate and Professional Student Association, Arizona State University; $500.00

SERVICE

2026 Nominee, ASU Career Faculty Association Outstanding Career Faculty Service Award for University Service

2025 Sun Award for Career Faculty Association support, Arizona State University
For building an AirTable database for the Career Faculty Association, September 2025

RESEARCH

2018 The College of Liberal Arts and Sciences Graduate Excellence Award, Arizona State University, College of Liberal Arts and Sciences; $100.00

2017 The College of Liberal Arts and Sciences Dean's Student Success Award, College of Liberal Arts and Sciences, Arizona State University; $250.00

2017 Outstanding Presentation Award, Graduate and Professional Student Association Research Symposium, Arizona State University; $25.00

2015 Summer Scholarship, School of Life Sciences, Arizona State University; $100.00

2011 Outstanding Presentation Award, Cognition, Action, and Perception Conference, University of Cincinnati; $25.00

PROFESSIONAL DEVELOPMENT

36 programs and workshops.

ASU Leadership Academy – Cohort 14 August 2026 – Present
Host: Arizona State University, Tempe, AZ

SOLS Leadership Circle Feb 2026 – May 2026
Host: School of Life Sciences, Tempe, AZ

Society for the Advancement of Biology Education Research (SABER) West Conference Jan 2026
Host: SABER at University of Cincinnati (UC) Irvine

- Also participated in two pre-conference workshops: one on AI in education and one on teaching field courses.

Evolving the Culture of Biology Scholar (NSF-Funded) June 2024 – May 2025

- The Evolving the Culture of Biology (ECB) Scholars program is a federally funded grant (National Science Foundation Improving Undergraduate STEM Education (NSF-IUSE): 2614700) designed to support the transformation of institutional Teaching Professional Development for Teaching Assistants (TA-TPD) in the biological sciences.

School of Life Sciences Leadership Academy — Oct 2023 – Apr 2024
Host: School of Life Sciences, ASU, Tempe, AZ

The Heart of Teaching Conference: Best practices and engaging activities that are sure to strike at the heart of your passion, spirit, pride, and soul! — February 24, 2022
Host: Center for Teaching and Learning, Glendale Community College, Glendale, AZ

EDU250: Teaching and learning in the community college — Fall 2021
Host: Estrella Mountain Community College, Virtual

iCURE Virtual Workshop — June 4 – 5, 2021
Host: Arizona State University West Campus, Virtual

Equity Minded Teaching in STEM Workshop — April 23, 2021
Host: Center for Teaching and Learning, Estrella Mountain Community College, Virtual

Stop Describing and Start Analyzing Workshop — April 23, 2021
Host: Maricopa County Community College District, Virtual

Cool Apps to Promote Student Learning and Engagement Showcase — February 23, 2021
Host: Center for Teaching and Learning, Estrella Mountain Community College, Virtual

Teach Students How to Learn in the New Normal: Metacognition is the Key — January 22, 2021
Host: Estrella Mountain Community College, Virtual
- Speaker: Dr. Saundra Yancy McGuire

Scientific Teaching Short Course — October 21 – November 23, 2020
Host: Macmillan Learning and The Summer Institutes for Scientific Teaching, Virtual

Panel Discussion: Representation in the field: How to bust assumptions about who does conservation biology and make training more inclusive for People of Color — September 30, 2020
Host: Center for Teaching and Learning, Estrella Mountain Community College, Virtual

Global Awareness Series "There are numerous ways to be a Muslim: Oral Histories" — September 25, 2020
Host: Research for Inclusive STEM Education (RISE) Center, School of Life Sciences Arizona State University, Virtual

Estrella Mountain Community College (EMCC) Life Sciences Division Reading Group — Fall 2020 – Spring 2021
Host: Estrella Mountain Community College Life Sciences Division, Virtual

Education Reading Group — Fall 2020
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Virtual

2020 Pedagogicon Conference — Spring 2020
Host: Eastern Kentucky University, Virtual

Developing Critical Thinkers Lunch and Learn — Spring 2020
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Asking Guiding Questions Workshop — Spring 2020
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Devils 4 Devils Workshop: Providing Students with Resources to Improve Mental Health — Spring 2020
Host: Arizona State University, Tempe, AZ

Education Reading Group — Spring 2020
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Teaching Diverse Students Lunch and Learn — Fall 2019
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Animal Behavior Labs Workshop: Engaging Students in the Science of Animal Behavior — Summer 2019
Host: Behavior (Joint Animal Behavior Society (ABS) + Ethology) Meeting, Chicago, IL

Workshop: Developing a Concept Inventory to Evaluate Student Learning in Undergraduate Animal Behavior Courses — Summer 2019
Host: Behavior (Joint ABS + Ethology) Meeting, Chicago, IL

Education Reading Group — Spring 2019
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

"HOT" Assessment Questions Workshop — Fall 2018
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Certificate of TA Training for Online Courses — Fall 2017
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Arizona State University Diversity and Inclusion Conference — November 2016
Host: Arizona State University, Tempe, AZ

Papers in Discipline-based Education Research Seminar Group — Fall 2016
Host: Sara Brownell Lab, School of Life Sciences Arizona State University, Tempe, AZ

Papers in Discipline-based Education Research Seminar Group — Spring 2016
Host: Sara Brownell Lab, School of Life Sciences Arizona State University, Tempe, AZ

How to Actively Engage Your Students: A Workshop on Active Learning — March 2014
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ

Faculty "Best Practices" with Clickers — October 2013
Host: Teaching Innovation Center, School of Life Sciences Arizona State University, Tempe, AZ
- Computational Modeling for SocioEcological Science (CoMSES)

Workshop on Agent-Based Model (ABM) in Education — February 28 – March 2 2013
Host: Center for Complex and Adaptive Systems, Arizona State University, Tempe, AZ

Bio 591: Scientific Teaching Course — Fall 2012
Host: School of Life Sciences, Arizona State University, Tempe, AZ

Evidence-Based Teaching in Biology Graduate Course — Fall 2010
Host: Department of Biology, University of Cincinnati, Cincinnati, OH
- https://leadershipacademy.asu.edu/

PUBLICATIONS

3 refereed publications · 1 other publication · 2 as lead or senior author.

Author order reflects contribution: the first author led the work and the final author is the senior author.

REFEREED PUBLICATIONS

3. Supriya, K., Bang, C., **Ebie, J.D.**, Pagliarulo, C., Tucker, D., Villegas, K., Wright, C., and Brownell, S. Optional exam retakes reduce anxiety but may exacerbate score disparities between students with different social identities. CBE–Life Sciences Education, 23:ar30, 2024. doi:10.1187/cbe.21-11-0320

2. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Larval regulation of worker reproduction in the polydomous ant *Novomessor cockerelli*. The Science of Nature, 102:72, 2015. doi:10.1007/s00114-015-1323-2
First author

1. Penick, C.A., **Ebie, J.D.**, and Moore, D. A non-destructive method for identifying the sex of ant larvae. Insectes Sociaux, 61:51–55, 2014. doi:10.1007/s00040-013-0323-5

OTHER PUBLICATIONS

1. **Ebie, J.D.** On the internet, searching for ants leads to new paths to engage with science. Myrmecological News Blog, March 31, 2021. https://blog.myrmecologicalnews.org/2021/03/31/on-the-internet-searching-for-ants-leads-to-new-paths-to-engage-with-science/
First author

PRESENTATIONS

7 conference talks · 15 conference posters · 7 media and public talks · 4 with student co-authors.

Author order reflects contribution: the first author led the work and the final author is the senior author. Student co-authors are marked.

***** Mentored undergraduate student **^** Mentored graduate student

CONFERENCE TALKS

7. **Ebie, J.D.**, Robson, S., Hölldobler, B., and Liebig, J. Workers respond to queen-specific hydrocarbon profile in the arboreal, polydomous weaver ant *Oecophylla smaragdina*. In: International Union for the Study of Social Insects Meeting, July 2022.

6. **Ebie, J.D.**, Millar, J., Robson, S., Hölldobler, B., and Liebig, J. Long-range regulation of reproduction in the arboreal, polydomous Weaver Ant, *Oecophylla smaragdina*. In: The International Society of Chemical Ecology Annual Meeting, June 2019.

5. Robson, S.K.A., Bochynek, T., Deneubourg, J.-L., Jones, L., and **Ebie, J.D.** Arboreal nest construction in the weaving ant *Oecophylla*: a possible model for the development of 3D robotic construction systems. In: The International Conference of Robotics and Automation; Workshop: Swarms: From biology to robots and back, May 2018.

4. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Regulation of worker reproduction in the polydomous ant *Novomessor cockerelli*. In: The International Congress of Entomology, September 2016.

3. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Larval regulation of worker reproduction in the polydomous ant *Aphaenogaster* (=*Novomessor*) *cockerelli*. In: University of Würzburg and Arizona State University Social Insect Meeting, University of Würzburg, May 2014.

2. **Ebie, J.D.** and Pavlic, T.P. Bringing honeybees into the classroom: Using agent-based modeling to teach the scientific process. In: International Symposium on Biomathematics and Ecology: Education and Research, October 2013.
   Invited Talk

1. **Ebie, J.D.**, Hauser, T., and Layne, J. Change in retinal image location due to optokinetic stimulation similarly changes escape direction in the fiddler crab. In: Cognition, Action, and Perception Conference, May 2011.

CONFERENCE POSTERS

15. Pollard^, K., **Ebie, J.D.**, and Pratt, S.C. Polarized Light as a Navigational Cue in the Foraging Behavior of the Ant *Temnothorax rugatulus*. In: Sensory Ecology Course, Lund University, September 2026.

14. Pollard^, K., Hammond*, I., Larson, K., **Ebie, J.D.**, and Johnson, J.C. Socioecological Drivers of Prevalence in the Western Black Widow. In: Central Arizona–Phoenix Long-Term Ecological Research Symposium, January 2026.

13. Aslan*, A., **Ebie, J.D.**, and Pavlic, T. Mechanisms of Prey-Delivery Rate Regulation in Cooperatively Transporting Ants. In: Animal Behavior Society meeting, July 2025.

12. Pollard^, K., **Ebie, J.D.**, and Johnson, J.C. The Effect of Artificial Light at Night on Urban and Rural Western Black Widow Populations. In: Central Arizona–Phoenix Long-Term Ecological Research Symposium, January 2025.

11. **Ebie, J.D.**, Millar, J., Robson, S., Hölldobler, B., and Liebig, J. Long-range regulation of worker reproduction in the arboreal, polydomous Weaver Ant, *Oecophylla smaragdina*. In: Behaviour 2019, July 2019.

10. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Investigation of vitellogenin as the proximate mechanism of larval regulation of worker reproduction in the ant *Novomessor cockerelli*. In: Graduate and Professional Student Association Research Symposium, Arizona State University, March 2017.
Awarded Outstanding Presentation

9. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Larval regulation of worker reproduction in the polydomous ant *Aphaenogaster* (=*Novomessor*) *cockerelli*. In: University of Würzburg and Arizona State University Social Insect Meeting, Arizona State University, December 2015.

8. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Regulation of worker reproduction in the polydomous ant *Aphaenogaster* (=*Novomessor*) *cockerelli*. In: Interdisciplinary Research Symposium, Arizona State University, March 2015.

7. **Ebie, J.D.**, Hölldobler, B., and Liebig, J. Regulation of worker reproduction in the polydomous ant *Aphaenogaster* (=*Novomessor*) *cockerelli*. In: Entomological Society of America Meeting, November 2014.

6. **Ebie, J.D.**, Shaffer, Z., and Pratt, S. To Recruit or not to recruit: When do *Temnothorax rugatulus* recruit to natural prey? In: Animal Behavior Society Meeting, July 2013.

5. **Ebie, J.D.**, Shaffer, Z., and Pratt, S. To Recruit or not to recruit: When do *Temnothorax rugatulus* recruit to natural prey? In: International Union for the Study of Social Insects, North American Section (IUSSI-NAS) Meeting, October 2012.

4. **Ebie, J.D.**, Hauser, T., and Layne, J. Role of oculomotor reflexes in the directional perception of the fiddler crab, *Uca pugilator*. In: Animal Behavior Society Meeting, June 2012.

3. **Ebie, J.D.**, Hauser, T., and Layne, J. Change in retinal image location due to optokinetic stimulation similarly changes escape direction in the fiddler crab, *Uca pugilator*. In: Cognition, Action, and Perception Conference, May 2011.

2. **Ebie, J.D.**, Zito, A.N., Haley, V.S., Welch, J.M., and Reinsel, K.A. Response to light by the hermit crab *Clibanarius tricolor* at North Point, San Salvador, Bahamas. In: Benthic Ecology Meeting, March 2004.

1. **Ebie, J.D.**, Zito, A.N., Haley, V.S., Welch, J.M., and Reinsel, K.A. Response to light by the hermit crab *Clibanarius tricolor* at North Point, San Salvador, Bahamas. In: Ohio Academy of Sciences Meeting, March 2003.

MEDIA AND PUBLIC TALKS

7. Harrod, G. More than a degree: An online biology grad's journey to research and real impact. In: ASU News, June 4, 2025. https://news.asu.edu/b/20250604-more-degree-online-biology-grads-journey-research-and-real-impact

6. Finnerty, M. and Neely, M. The mighty impact of insects: How studying a bug's life is helping ASU researchers address environmental and societal challenges. In: ASU News, April 24, 2025. https://news.asu.edu/20250424-environment-and-sustainability-mighty-impact-insects

5. Holbrook, C. Alumni Excellence. In: Wittenberg University, September 24, 2024. https://www.wittenberg.edu/news/09-24-24/alumni-excellence

4. Harrod, G. School of Life Sciences students travel to Australia, bringing 39 ant colonies back to Tempe for research projects. In: School of Life Sciences, Arizona State University, September 9, 2024. https://sols.asu.edu/sols-students-travel-australia-bringing-39-ant-colonies-back-tempe-research-projects

3. **Ebie, J.D.** How do green ants know their mom is home? In: Pecha Kucha Night, Townsville, June 2018. https://www.pechakucha.com/presentations/how-do-green-ants-know-their-mom-is-home.

2. Ceurstemont, S. Baby ants have a host of unexpected superpowers. In: British Broadcasting Corporation (BBC) Earth, April 6, 2017. http://www.bbc.com/earth/story/20170405-baby-ants-have-a-host-of-unexpected-superpowers

1. Kurth, J. Scientists mentor female science fair winners. In: ASU Now, May 24, 2012. https://asunow.asu.edu/content/scientists-mentor-female-science-fair-winners

GRANTS

15 grants funded · $19,324 awarded · 2 grants awarded to mentored students, totaling $15,000 · 2 further proposals submitted.

^ Mentored graduate student

FUNDED

2025 Kajaya Pollard^, Central Arizona–Phoenix Long-Term Ecological Research (CAP LTER) Summer Research Fellowship; $5,000.00

2025 Beth Ponn^, SIRG Summer Research Fellowship; $10,000.00

2021 Ebie, Jessica, Smith, Rachel, and Parmiter, Catherine. Creating self-regulated learners to increase success and persistence in life sciences. Estrella Mountain Community College Learning and Innovations Grant; $8,748.00

2018 Ebie, Jessica. Reproductive regulation in the polydomous weaver ant *Oecophylla smaragdina*. Australia Awards Endeavour Research Fellowship.; $23,000 AUD

2017 Ebie, Jessica, Handler, Amalia, and Bernard, Miranda. Interdisciplinary problem-solving through water allocation. School of Life Sciences Interdisciplinary Research Grant; $1000.00

2017 Ebie, Jessica. Investigation of vitellogenin as the proximate mechanism of larval regulation of worker reproduction in the ant *Novomessor cockerelli*. Graduate Field Work Grant; Arizona State University, School of Life Sciences Research Training Initiative; $1500.00

2017 Ebie, Jessica. Investigation of vitellogenin as the proximate mechanism of larval regulation of worker reproduction in the ant *Novomessor cockerelli*. Graduate Research and Support Program; Arizona State University Graduate and Professional Student Association.; $2000.00

2016 Arizona State University School of Life Sciences Travel Grant for travel to the International Congress of Entomology; $400.00

2016 Arizona State University Graduate and Professional Student Association Travel Grant for travel to the International Congress of Entomology; $950.00

2015 Ebie, Jessica. Regulation of worker reproduction in the polydomous ant *Aphaenogaster cockerelli*. Arizona State University, School of Life Sciences Research Training Initiative Graduate Field Work Grant.; $1106.00

2014 Arizona State University School of Life Sciences Travel grant for travel to the Entomological Society of America Meeting; $400.00

2014 Arizona State University Graduate and Professional Student Association Travel Grant for travel to the Entomological Society of America Meeting; $320.00

2013 International Symposium in Biomathematics and Ecology: Education and Research Symposium Travel Grant to travel the International Symposium in Biomathematics and Ecology: Education and Research Symposium; $500.00

2012 International Union for the Study of Social Insects Travel Grant for travel to the International Union for the Study of Social Insects-North American Section Meeting; $400.00

2012 Arizona State University School of Life Sciences Travel Grant for travel to International Union for the Study of Social Insects-North American Section Meeting; $400.00

2012 Arizona State University School of Life Sciences Travel Grant for travel to the Animal Behavior Society Meeting; $400.00

2010 Ebie, Jessica. Gravireception as a mechanism for the fiddler crab *Uca pugilator* to detect three-dimensional terrain. University of Cincinnati Department of Biology Wieman, Wendel, Benedict Research Grant.; $1200.00

NOT FUNDED

2026 Ebie, Jessica, Kellam, Nadia, and Jesse, Jacqui. STEM Accelerator Pathway: Removing Barriers from Community College to Graduate School. Alfred P. Sloan Foundation, Exemplary Pathways to STEM Graduate Education.; $499,625.00
Letter of inquiry submitted May 2026, with Maricopa County Community College District; proposed April 2027 – March 2030

2025 Pavlic, Theodore, Ebie, Jessica, Fewell, Jennifer H., Harrison, Jon F., Liebig, Jürgen, Linksvayer, Tim, Pratt, Stephen, Reid, Chris, Taylor, Lisa A., and Yarger, Jeffery L. From Biomechanics to Social Evolution: Multi-Scale Adaptations of Arboreal Weaver Ant Societies. Simons Foundation, Simons Collaborations in Ecology and Evolution.
Letter of intent submitted October 16, 2025, with Macquarie University and the University of Florida