CURRICULUM VITAE

**Amalie Strange**

PhD Candidate, School of Life Sciences

Arizona State University, Tempe, AZ

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| **Education** | **Research Interests** |
| Arizona State University, 2020-present  PhD, Animal Behavior  Arizona State University, 2016-2020  B.S., Biological Sciences (Genetics)  B.A., Spanish Literature  Barrett Honors College | Environmental education  Posthuman methodologies  Qualitative methods  Inclusive pedagogy  Community outreach  Teaching with honeybees  Educational technologies |
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**Manuscripts in Progress**

Strange, A. (In prep) Solitary but not alone: Materializing boundaries at a distance with a leafcutter bee’s nest. Abstract accepted for Special Issue of Australian Journal of Environmental Education

Koro, M.; Strange, A.; Chakraborty, A.; Sorsa, M. (Submitted) Scaling as Material and Methodological Activation.

Surrey, K.; Strange, A.; Lyons, C. (In prep) Nature or Not? A Qualitative Survey Study on Digital Experiences of Nature

Strange, A.; Ghosh, P. (In prep) Is This a Paradigm Shift? A Mixed-Methods Study on Animal Behavior Researchers’ Use of the Term “Paradigm Shift”

**Oral, Panel, and Poster Presentations**

Wolgemuth, J.; Koro, M.; **Strange, A.**; Byers, C. (2024) *'You can comb my hair…': epigenetic turn of plastic (Barbie) methodologies*. European Congress for Qualitative Inquiry, presentation contributor. Helsinki, Finland.

Pliushchik, M.; **Strange, A.** (2024) *On the importance of staying in beetween: PhD students and honeybee temporality.* European Congress for Qualitative Inquiry, presentation contributor. Helsinki, Finland.

Strange, A. (2023) *Posthumanism and human-insect interactions*. SIRG Seminar, presentation. Tempe, AZ.

Strange, A. (2023) *Mapping Materiality: Body Mapping as Material and Pedagogical Activation.* International Congress for Qualitative Inquiry, presentation. Urbana-Champaign, IL.

Koro, M.; **Strange, A.;** Chakraborty, A.; Sorsa, M. (2023) *Scaling as Material and Methodological Activation*. American Educational Research Association, paper presentation. Chicago, IL.

Strange, A.; Ghosh, P. (2023) *“Is this a true shift?”: A mixed methods study on the usage of the term ‘Paradigm Shift’ among animal behavior researchers*. SIRG Seminar, presentation. Tempe, AZ.

Strange, A. (2022) *Bring Students Into the Hive: Designing and Assessing Outreach Programs*. Animal Behavior Live, invited workshop. Zoom conference.

Strange, A. (2022) *Can seeing inspire action? An interactive digital beehive tour for equitable access to nature*. RISE Center Natural Sciences Inclusion Summit, poster. Tempe, AZ.

Strange, A. (2022) *Can seeing inspire action? An interactive digital beehive tour for equitable access to nature*. International Union for the Study of Social Insects, poster. San Diego, CA.

Strange, A. (2022) *Exploring a Relational and Indigenous Narrative of a Leafcutter Bee’s Nest*. International Congress of Qualitative Inquiry, panel. Zoom Conference.

Strange, A. (2020) *Are Bacteria Barging Through the Honeybee Blood-Brain Barrier?* Undergraduate Honors Thesis Defense. Tempe, AZ.

Strange, A. (2019) *Stressing out the Honeybee Blood-Brain Barrier*. Arizona Physiological Society Meeting, poster. Tempe, AZ.

Strange, A. (2018) *Stressing out the Honeybee Blood-Brain Barrier: Parasites*. BioSci Southwest, poster. Tempe, AZ.

Strange, A. (2018) *Stressing out the Honeybee Blood-Brain Barrier: Aging*. School of Life Sciences Undergraduate Research Symposium, poster. Tempe, AZ.

**Undergraduate Research Experience**

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| Undergraduate Research Assistant, Amdam lab   * Learned honeybee brain dissection, fluorimetry, antibody staining, and confocal microscopy techniques to investigate the physiology of the honeybee blood-brain barrier * Completed two independent projects which led to poster presentations, an undergraduate thesis, and a funded grant | Fall 2017-Spring 2020 |

**Awards**

ASU School of Life Sciences Innovative Graduate Teaching Assistant, Apr 2023

**Scholarships**

Lattie F. and Elnora W. Coor Scholarship

Awarded to one first-generation Barrett Honors College student every four years

Funded for 2016-2020

Total funding amount: $20,000

Arizona Top Scholar

Funded for 2016-2020

Total funding amount: $14,000

ASU Study Abroad Office Planning Scholars

Awarded to first-generation students to fund study abroad

Funded for Summer 2018

Total funding amount: $4,000

Dorothy Govekar Study Abroad Scholarship

Funded for Summer 2018

Total funding amount: $650

**Grants Funded**

GPSA Travel Grant (2024)

Funding Agency: ASU GPSA

Total funding amount: $950

Graduate College University Grant (Spring 2024 Semester)

Funding Agency: ASU Graduate College

Total funding amount: $5,000

SOLS Travel Grant (2023)

Funding Agency: ASU School of Life Sciences

Total funding amount: $400

GPSA Travel Grant (2023)

Funding Agency: ASU GPSA

Total funding amount: $950

AERA Conference Registration Grant (2023)

Funding Agency: AERA

Total funding amount: $75

Graduate College University Grant (2022-23 Academic Year)

Funding Agency: ASU Graduate College

Total funding amount: $10,000

IUSSI 2022 Conference Travel Grant (2022)

Funding Agency: International Union for the Study of Social Insects

Total funding amount: $1800

Graduate College Travel Award for ICQI Conference Registration (2022)

Funding Agency: ASU Graduate College

Total funding amount: $135

*Are Bacteria Barging Through the Honeybee Blood-Brain Barrier?* (2020)

Funding Agency: Barrett Honors College, ASU

Total funding amount: $946.50

Sigma Xi Scientific Research Honor Society Undergraduate Grant (2019)

Funding Agency: Sigma Xi, ASU chapter

Total funding amount: $400

**Grants Unfunded**

*Honoring Inclusive Voices for Equity and Diversity (HIVED) Summer Research Scholarship* (2021)

Co-PIs: Strange, A., Calixto, J., Ostwald, M., Perl, C. & Le Gall, M.

Funding Agency: College of Liberal Arts and Sciences, Natural Sciences

Requested amount: $4,000

**Course Instruction**

BIO 530: Scientific Teaching

Co-Instructor, Spring 2024

BIO 415: Biometry

iCourse TA, Summer 2021, Spring 2022, Summer 2022

Lab TA, Fall 2022

BIO 360: Animal Physiology

iCourse TA, Spring 2022

Lecture TA, Spring 2023

BIO 340: Genetics

Recitation TA, Spring 2021 and Fall 2021

BIO 100: Introductory Biology for Non-Majors

iCourse TA, Summer 2021

BIO 281: Introductory Biology for Biology Majors

Lab TA, Fall 2020

**Course Design**

Instructional Design Intern, SOLS Teaching and Learning Center, Summer 2023-present

* Managed course build in Canvas for BIO 340: Genetics and BIO 181: Biology Concepts
* Assisted course development of BIO 530: Scientific Teaching
* Organized a panel of experienced teaching assistants and a break-out session for the 2023 Teaching Assistant Training
* Consults with faculty on educational technologies and teaching practices

**Outreach**

Virtual Beehive Tour

In this Zoom-facilitated virtual tour, K-6 students are introduced to the roles of different honeybees, the structure of a hive, and how honeybees interact with their environment to find nectar and water. We also discuss ways that we can show respect to honeybees and how overcoming fear of honeybees allows us to appreciate them.

* + Fourth-grade classes, Shackelford Elementary School. Modesto, CA. 26 & 27 April 2022.
  + Mixed-grade class, Commonwealth Charter Academy. Harrisburg, PA. 18 March 2021.
  + Second-grade class, Kyrene de la Mirada Leadership Academy, Chandler, AZ. 17 February 2021.

*Healthy Habits of Honeybees and Humans* Packet

This packet is designed to accompany the virtual beehive tour. Students learn about the diet, hygiene, and sleeping habits of honeybees, and compare their daily habits to those of the honeybees.

In-Person Outreach

For in-person outreach events, I bring an observation frame of honeybees and a selection of beekeeping tools, honey, beeswax, and books. In each small-group conversation I have, I answer questions about topics people are curious about and introduce them to aspects of honeybee life and honeybee-human interactions that aren't common knowledge.

* Puente Festival at Tempe Center for the Arts, April 10th, 2022
* Arizona State University Homecoming, Social Insect Research Group Booth, November 19th, 2022
* Arizona State University Night of the Open Door, February 25th, 2023

**News and Media**

[**ASU’s Bee Lab Annex is one of the largest bee research centers in the U.S.**](https://kjzz.org/content/1853632/asus-bee-lab-annex-one-largest-bee-research-centers-us), Aug 2023, Profile and radio story on my research at the ASU Bee Lab

[**ASU summit addresses diversity, inclusion in STEM**](https://news.asu.edu/20221115-solutions-asu-summit-addresses-diversity-inclusion-stem?Strategic_Communications_SFMCE=&ecd42=518002422&ecd73=14149009&ecd37=All%20ASU%20Employees&ecd43=11/16/2022&utm_campaign=ASU_News_News+11-16-22_6704828&utm_medium=email&utm_source=Media%20Relations%20&utm_term=ASU&utm_content=STEM+inclusion)**,** Nov 2022,Feature photo and highlight about my research

[**First-gen student leverages science, humanities background in pursuit of PhD**](https://news.asu.edu/20200724-first-gen-student-leverages-science-humanities-background-pursuit-phd)**,** July 2020, Profile about my journey as a first-generation college student beginning a PhD

**Professional Affiliations**

American Educational Research Association

International Congress for Qualitative Inquiry

International Union for the Study of Social Insects

Out in STEM/ National Organization of Gay and Lesbian Scientists and Technical Professionals

**Service and Campus Involvement**

2023-2024

Communications Director & Facilities Representative, ASU School of Life Sciences Graduate Student Executive Board

2022-2023

Seminar Coordinator, Social Insect Research Group

Teaching Assistant Training, panelist

2021-2022

Member, Honoring Inclusive Voices for Equity and Diversity

2020-2021

Natural Sciences Representative, Graduate Women’s Association

Member, Honoring Inclusive Voices for Equity and Diversity

2019-2020

Lead Community Assistant, Barrett Honors College

Member, Barrett LGBT+ Club

Facilitator, Cesar Chavez Leadership Institute Summer Program

2018-2019

Community Assistant, Barrett Honors College

Member, Barrett LGBT+ Club

Study Abroad, Studying Culture and Civilization in León, Spain

2017-2018

Barrett Ambassador, ASU – Barrett Honors College Recruiting

Selected Student Speaker, Barrett Dean’s Club Scholarship Breakfast