CURRICULUM VITAE

Amalie Strange

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Education

Arizona State University, 2020-2026
PhD, Animal Behavior

Arizona State University, 2016-2020
B.S., Biological Sciences (Genetics)
B.A., Spanish Literature
Barrett Honors College

Research Interests

Environmental education
More-than-human intra-actions
Posthumanism
(Post)Qualitative methodologies
Inclusive pedagogy
Community outreach
Teaching with honeybees
Educational technologies

Manuscripts (Published, in Press, and in Prep)

Strange, A. (In press) Dying-with honeybees/Memorializing-with honeybees. In Koro, M. & Kallio-Tavin, M. (Eds.) *Artistic Methodological Spaces*. Intellect Books.

Strange, A., Koro, M., Amdam, G. (In Review) Speculating Relations with Honeybees: A Posthuman Inquiry in Environmental Arts Education. *Studies in Art Education*.

Strange, A., Koro, M., Benozzo, A., Carey, N., Linares-Roake, J., Zawadzki, J. A. & Johnson Zawadzki, S. (2026). --- Curation notes - Plugging it in: This is really interesting, but what are you going to do with it ---. *PuntOorg International Journal*, 11(2).

Koro, M., Vasquez, A. M., Byers, C. C., & **Strange, A.** (2025) (Re) Activated by Objects: Interviewing with and beyond Unimodal Dialogue. In Marvasti, A. B. & Gubrium, J. F. (Eds.) *Interviews as Activated Storytelling* (pp. 224-241). Routledge.

Koro, M., **Strange, A.**, Chakraborty, A., & Sorsa, M. (2025). Scaling as Methodological and Material Activation Technique. *Reconceptualizing Educational Research Methodology, 16(2).*

Strange, A. (2024). Solitary but not alone: Materialising boundaries at a distance with a leafcutter bee's nest. *Australian Journal of Environmental Education, 40(2)*, 231-242.

Cannella, G. S., Collins, D. R., **Strange, A.**, & Koro, M. (2024). Becomings-With Critical Qualitative Inquiry. *International Review of Qualitative Research*, 17(2), 91-102.

Strange, A., Koro, M., Amdam, G. (In prep) Honeybee Non/violence: Speculative Kin Relations in Environmental Education.

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

Bisgrove, D., **Strange, A.** (In prep) "I wouldn't be here if it wasn't for her": A Qualitative Interview Study on the Relationships Between Unhoused People and Their Pets

Oral, Panel, and Poster Presentations

Sweet, J.; **Strange, A.** (2026). *Toward a Clown(ing) Pedagogue: (Re)thinking Curriculum through a Clown Process Ontology.* American Educational Research Association, paper presentation. Accepted for upcoming conference in Los Angeles, CA.

Strange, A.; Koro, M.; Amdam, G. (2025) *Honeybee Non/violence: Making Kin in Environmental Education.* American Educational Research Association, paper presentation. Denver, CO.

Koro, M.; Crinall, S.; Smirnova, D.; Charteris, J.; **Strange, A**.; Molloy Murphy, A. (2025) *Methodological intimacy and 'silence in postqualitative inquiry'*. American Educational Research Association, paper presentation. Denver, CO.

Strange, A. (2024) *Ethics of closeness: Boundary formation with a leafcutter bee's nest*. American Educational Research Association, paper presentation. Philadelphia, PA.

Strange, A.; Koro, M.; and Amdam, G. (2024) *Non/violent Honeybee Becomings*. International Congress for Qualitative Inquiry, presentation. Urbana-Champaign, IL.

Noback, K. and **Strange, A**. (2024) *Data refusals, responses, and re-orientations*. STEM Inclusion Summit, poster. Tempe, AZ.

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.

Peer Reviewer

Australian Journal of Environmental Education
Current Issues in Education
American Educational Research Association, conference proposal reviewer

Mentorship

Honeybee Heart Physiology Undergraduate Honors Thesis Project

- Currently serving as an Honors Thesis Committee Member for three undergraduate students on their honors thesis
    - Dua Faraz and Marissa Castillo, June 2025 – May 2026 (anticipated graduation)
    - Kenny Strong, June 2025 – May 2026 (anticipated project completion)
- Taught proper dissection technique for honeybee abdomens and brains
- Meets weekly with students to advise on experimental design and literature review

Kieran Noback, August 2023 – December 2024 (graduated)

- Mentored them as an undergraduate researcher
- Co-designed a weekly project-based learning unit for middle school science outreach
- Guided them in presenting a poster at a STEM inclusion summit on the process of designing this program

Fanny Sanchez Villareal, September 2020 – May 2024 (graduated)

- Taught her in one introduction to biology and two upper division biology courses
- Mentored her in finding and joining a research lab
- Guided her through applying to a prestigious summer research program which she was expected to

Undergraduate Research Experience

Undergraduate Research Assistant, Amdam lab — Fall 2017-Spring 2020

- 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 honors thesis, and two funded research grants

Awards

Distinguished Graduate Student, Faculty Women's Association, 2025
ASU School of Life Sciences Innovative Graduate Teaching Assistant, 2023

Certificates

Center for the Integration of Research, Teaching, and Learning, Associate level

Grants Funded

Goodman Award
Funding Agency: Royal Entomological Society
Total funding amount: $1,121.81

Focus on Finishing Your Degree Fellowship (2025)
Funding Agency: ASU Graduate College and School of Life Sciences
Total funding amount: $16,000

GSG Travel Grant (2025)
Funding Agency: ASU GSG
Total funding amount: $950

SOLS Travel Grant (2025)
Funding Agency: ASU School of Life Sciences
Total funding amount: $305.07

Graduate College Travel Award (2025)
Funding Agency: ASU Graduate College
Total funding amount: $155

SOLS Travel Grant (2024)
Funding Agency: ASU School of Life Sciences

Total funding amount: $215

Graduate College Travel Award for ICQI Conference Registration (2024)
Funding Agency: ASU Graduate College
Total funding amount: $300

AERA Environmental Education SIG Travel Grant (2024)
Funding Agency: AERA EE SIG
Total funding amount: $500

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

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

Course Instruction

BIO 531: Advanced Scientific Teaching (*Instructor of Record*, Spring 2025)

- Course purpose: Students will apply their knowledge of Scientific Teaching by designing a Teaching-As-Research project to implement in their teaching practice.
- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Advised students on their semester-long project-based learning experience: the Teaching-As-Research project
- Regularly revises the course for most current literature on pedagogy, research design for teaching strategies, and innovative teaching techniques

BIO 530: Scientific Teaching (*Instructor of Record*, Spring 2024, Fall 2024, Fall 2025)

- Course purpose: Students will learn about the principles of Scientific Teaching, such as approaching teaching practices using the scientific method, designing for inclusive excellence, and providing actionable, constructive feedback
- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Advised students on their semester-long project-based learning experience: the Teaching Portfolio

- Regularly revises the course for most current literature on issues in education, education for diverse groups, and innovative teaching techniques

BIO 415: Biometry/Statistical Models for Biology (*iCourse TA*, Summer 2021, Spring 2022, Summer 2022; *Lab TA*, Fall 2022)

- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Translated statistics taught in the lecture into practical code for analyzing datasets in the computing program R in lab sections I was responsible for
- Created weekly interactive lab presentations connecting the abstract concepts to their practical lab activities (immersion)
- Held a weekly synchronous review and demonstration session that was recorded and posted for students who could not attend (online)
- Advised graduate sections on their independent, semester-long data analysis projects (immersion)

BIO 360: Animal Physiology (*iCourse TA*, Spring 2022*; Lecture TA*, Spring 2023)

- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Developed exam review sessions based on learning objectives and student feedback
- Prepared classroom technology (classroom projectors and desktops, microphones, iClicker and Zoom) to ensure smooth operation during course (immersion)
- Worked with the Student Accessibility and Inclusion Services office to ensure testing, assistive technology, and live transcription accommodations were met for students (immersion)
- Worked with individual students needing virtual attendance accommodations for class due to illness or personal reasons (immersion)

BIO 340: Genetics (*Recitation TA*, Spring 2021 and Fall 2021)

- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Engaged in large- and small-group teaching during weekly recitation
- Remediated course materials for accessibility

BIO 100: Introductory Biology for Non-Majors (*iCourse TA*, Summer 2021)

- Held weekly office hours and built rapport with individuals and groups of students
- Maintained the discussion board and assisted students with technical issues and content questions

BIO 281: Introductory Biology for Biology Majors (*Lab TA*, Fall 2020)

- Held weekly office hours, graded assignments, and built rapport with individuals and groups of students
- Facilitated weekly lab session using Zoom and other interactive educational technologies (Google Docs, Google Slides, Labster)

- Attended to student community development due to global circumstances and online modality
    - Used Slack to facilitate student connections
    - Created a community music playlist that students made weekly additions to
    - Utilized breakout rooms encourage students to meet new colleagues

Course Design

Instructional Design Intern, SOLS Teaching and Learning Center, Summer 2023-Fall 2025

- Acted as Lead Instructional Designer for online course redevelopments of BIO 181: Biology Concepts I, BIO 182: Biology Concepts II, BIO 340: Genetics, BIO 360: Animal Physiology, and BIO 361: Animal Physiology lab
    - Worked with subject-matter experts and advocated for best practices in course design, student engagement, accessibility, and inclusion
- Co-developed BIO 530: Sci. Teaching and BIO 531: Adv. Sci. Teaching courses that are core requirements for the Scientific Education Certificate
- Achieved advanced proficiency in Canvas, including creating quizzes/assignments, LTI integration, configuring groups and sections, embedding external videos, designing pages with HTML, and more
- Developed resource guides and one-page communications about educational technology, teaching best practices, accessibility, and online course facilitation
- Organized a panel of experienced teaching assistants and a break-out session for the 2023 and 2024 Teaching Assistant Trainings
- Organized SOLS Teaching Assistant Training 2025
- Consulted regularly with faculty on educational technologies and teaching practices
- Wrote, formatted, and sent TLC Timely Tips, Accessible By April, and AI Bulletin newsletters via Salesforce Marketing Cloud

Outreach

Virtual Beehive Tour and Healthy Habits of Honeybees and Humans Packet

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. The Healthy Habits 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 honeybees.

- Fourth- and Fifth-grade classes, Crockett Elementary School. Phoenix, AZ. 28 January 2025.
- Seventh-grade Resource class, Udall Middle School. Phoenix, AZ. March-May 2024.

    - This included the Virtual Beehive Tour, Healthy Habits packet, and a weekly project-based learning experience for the students, culminating in the creation and presentation of research posters for their projects.
- First-grade classes, ASU Prep Digital. Phoenix, AZ. 26 April 2024, 10 December 2024, 12 December 2025.
- Fourth-grade classes, Shackelford Elementary School. Modesto, CA. 26 & 27 April 2022.
- Mixed-grade Resource class, Commonwealth Charter Academy. Harrisburg, PA. 18 March 2021.
- Second-grade class, Kyrene de la Mirada Leadership Academy, Chandler, AZ. 17 February 2021.

In-Person Outreach Events

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 different aspects of honeybee life and honeybee-human interactions.

- Arizona State University Open Door, February 22nd, 2025
- Arizona State University Open Door, February 24th, 2024
- Arizona State University Open Door, February 25th, 2023
- Arizona State University Homecoming, Social Insect Research Group Booth, November 19th, 2022
- Puente Festival at Tempe Center for the Arts, April 10th, 2022

News and Media

ASU's Bee Lab Annex is one of the largest bee research centers in the U.S., Aug 2023, Profile and radio story on my research at the ASU Bee Lab

ASU summit addresses diversity, inclusion in STEM, Nov 2022, Feature photo and highlight about my research

First-gen student leverages science, humanities background in pursuit of 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
PostHuman Nexus

Service and Campus Involvement

2025-2026
Vice President, ASU School of Life Sciences Graduate Student Executive Board
2024-2025
President, ASU School of Life Sciences Graduate Student Executive Board
Chief Justice, ASU Grad Student Government Judiciary
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