

Celestial Jynx Pigart-Coleman

Ph.D. Student

School of Life Sciences

Arizona State University

cpigartc@asu.edu

EDUCATION

ASU - Arizona State University, Tempe, AZ (2022 – present)

Ph.D. in Biology, expected May 2026

Concentration: Biology Education

Advisor: Dr. Katelyn Cooper

ECU - East Carolina University, Greenville, NC (2016-2020)

B.S. Biology and Psychology

Concentration: Molecular Biology

Advisors: Dr. Heather Vance-Chalcraft (Biology Education), Dr. Matthew C Whited (Psychology)

GRANTS AND AWARDS

Funded national award

National Science Foundation Graduate Research Fellowship Program 2022-2027, \$159,000

Pending proposals for national competitions

National Science Foundation EHR-CORE: A longitudinal study to document what aspects of graduate research impact science PhD students' depression

- This project was based on ideas proposed in my GRFP. We proposed to conduct a cohort sequential longitudinal study of science PhD students with depression to document the extent to which the severity of graduate students' depressive symptoms fluctuates throughout their time in a science PhD program, assess to what extent, when, and why aspects of science graduate programs uniquely impact depressive symptoms among underrepresented and underserved groups in science, and test whether severity of depressive symptoms predicts attrition from science PhD programs. \$1,500,000 was requested in October of 2023. Pigart is Co-PI.

Funded institutional awards

ECU Thomas Harriot College of Arts and Sciences Staff Council Scholarship, 2020 \$1,000

ECU HJ Daniels Memorial Scholarship, 2020, \$1,000

ECU Carol S Ripley Research Scholarship, 2020, \$1,500

ECU Campus Living Residential Volunteer Scholarship, 2019, \$4,000

ECU SECU Public Fellows Intern Scholarship, 2018, \$4,600

Travel awards to attend meetings or to visit other institutions

ASU Graduate College Travel Award, Q3 2023-24, \$300

Biology and Society AAAS Poster Competition Travel Award, 2024, \$1,000

ASU Graduate College Travel Award, Q2 2023-24, \$300

Gordon Research Conference Biology Education Travel Award 2023, \$2,000

ASU School of Life Sciences Graduate Student Travel Award, Q1 2023-24, \$400

ASU School of Life Sciences Graduate Student Travel Award, Q3 2022-23, \$400

ASU Graduate College Travel Award, Q3 2022-23, \$70

ECU The Jim and Pam Mullen Thomas Harriot College of Arts and Sciences Staff Council Scholarship, 2019 \$1,000

PUBLICATIONS

Peer Reviewed Journal Articles

Pigart CJ & Whited MC. (2022, January). Potential benefits of social support in videogames on college student mental health during COVID-19. *The Lookout: A Journal of Undergraduate Research*.

In review

Pigart CJ, Wiesenthal NJ, Mohammed TF, Kennedy L, Gin LE, & Cooper KM. The effects of graduate research and teaching on Ph.D. student anxiety. *CBE Life Sciences Education*. January 2024.

Manuscripts in preparation for submission

Pigart CJ, Mohammed T, Acuña T, Baltazar S, Bean C, Hart M, Huizenga K, James A, Shaw H, Zsuffa K, Busch C, Cooper KM. Understanding premed student stress.

Pigart CJ, Cohen KA, McDanal R, Cooper KM, Eaton N, Schleider JL. Mental Health, Belonging, and Perceptions of Campus Climate among Undergraduate Women in STEM Fields.

Pigart CJ, MacKinnon DP, & Cooper KM. Academic social comparison: a promising new target to reduce fear of negative evaluation in large enrollment college science courses.

Book Chapter

Esparza D, Amin NE, Hazlett ZS, Frings FG, **Pigart CJ**, Roberts E, Uminski C, Williams EL, Wright AM, Yang M, Metzger KJ. Guiding discipline-based education research trainees through career transitions with inclusive and accessible organizational support. Leveraging, Enhancing, and Developing Biology (LED-BIO) Societies Book Project. *Discipline-based Education Research - Scholars-in-Training (DBER-SiT)*. Chapter abstract proposal. Submitted December 2023.

PRESENTATIONS

Peer-reviewed talks

4. **Pigart CJ**. Academic social comparison: a promising intervention target to reduce fear of negative evaluation in active learning science classrooms. Society for the Advancement of Biology Education Research (SABER) Regional West Conference. University of California, Irvine. Irvine, California. January 2024.

Invited talks and workshops, upcoming

3. **Pigart CJ**. Academic social comparison: a promising intervention target to reduce fear of negative evaluation in active learning science classrooms. *Biology Teaching and Learning*

Group. University of Washington. Seattle, Washington. February 2024.

Invited talks and workshops

2. **Pigart CJ**. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. Research for Inclusive STEM Education Inclusion Summit. Arizona State University. Tempe, Arizona. October 2023.

1. **Pigart CJ**, Busch C, Mohammed TF. How to apply for the NSF-GRFP, tips and tricks. Biology and Society. Arizona State University. Tempe, AZ. October 2023.

Conference poster presentations, upcoming

10. **Pigart CJ**, MacKinnon DP, & Cooper KM. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. AAAS. Denver, Colorado. February 2024.

Conference poster presentations

9. **Pigart CJ**, MacKinnon DP, & Cooper KM. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. ASMCUE. Phoenix, Arizona. November 2023.

8. **Pigart CJ**, MacKinnon DP, & Cooper KM. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. Research for Inclusive STEM Education Inclusion Summit. Tempe, Arizona. October 2023.

7. **Pigart CJ**, MacKinnon DP, & Cooper KM. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. Society for the Advancement of Biology Education Research (SABER) National Conference. Minneapolis, Minnesota. July 2023.

6. **Pigart CJ** & Cooper KM. Depression over time in graduate school research. Gordon Research Conference for Biology Education. Lewiston, Maine. June 2023.

5. **Pigart CJ**, MacKinnon DP, & Cooper KM. Social comparison partially mediates the relationship between underserved science identities and fear of negative evaluation. Gordon Research Conference for Biology Education. Lewiston, Maine. June 2023.

4. **Pigart CJ**. Examining how research and teaching affect anxiety in life sciences Ph.D. Students. Society for the Advancement of Biology Education Research (SABER) West Conference. Irvine, California. January 2023.

3. **Pigart CJ**, Whited MC, Capiaghi A, Midgette E, McNinch A, & Davis H. Exploring potential benefits of social support in commercial videogames on college student behavioral health during COVID-19. Poster selected for presentation at the 43rd annual meeting of the Society of Behavioral Medicine (virtual conference). April 2022.

2. Midgette E, Whited M, Ellis J, Schoemann A, Griffith A, Capiaghi A, McNinch A, Davis H & **Pigart CJ** (2021, April). Ecological momentary assessment of sleep quality, daytime fatigue, and engagement in cardiopulmonary rehabilitation. Poster selected for presentation at the 42nd annual meeting of the Society of Behavioral Medicine (virtual conference). April 2021.

1. **Pigart CJ**, Whited MC, Ellis J, Capiaghi A, Midgette E, & Davis H. Exploring an Interaction of Antidepressants and Depressive Symptoms on Health Behaviors in College Students. Poster selected for presentation at the 41st annual meeting of the Society of Behavioral Medicine (virtual conference). April 2020.

RESEARCH-RELATED MEDIA APPEARANCES AND INTERVIEWS

ASU press

- [Life sciences graduate students awarded NSF fellowships](#). ASU News. April 2022.
 - Article highlights Cooper lab NSF GRFP winners: incoming graduate student Jynx Pigart-Coleman (2022) current graduate students Tasneem Mohammed (2022), Nicholas Wiesenthal (2022), Carly Busch (2020), and alumnus Logan Gin (2017).
- [NSF Graduate Research Fellowship Program \(GRFP\) recognizes 4 outstanding CBS graduate students](#). Center for Biology and Society. April 2022.
 - Article highlights Cooper lab NSF GRFP winners: incoming graduate student Jynx Pigart-Coleman (2022) current graduate students Tasneem Mohammed (2022), Nicholas Wiesenthal (2022), and Carly Busch (2020).

TEACHING EXPERIENCE

Arizona State University, School of Life Sciences (2022 – present)

- BIO 494 Biology Education Research, Research Assistant, Spring 2023
 - Course-based undergraduate research experience (CURE) for undergraduates in ASU's fully online program
- BIO 340 Genetics, Teaching Assistant, Fall 2022

East Carolina University, Department of Biology (2017 – 2020)

- BIO 11051, Introductory Biology I for non-majors, Teaching Assistant, Fall 2017, Spring 2018
- BIO 1101, Introductory Biology I for majors, Teaching Assistant, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020
 - *Two courses per semester*

SECU Public Fellow: North Carolina State Aquarium on Roanoke Island (2018)

- Conservation and Aquatic Biology Educator, Summer 2018
 - Full time 330-hour internship

MENTORSHIP EXPERIENCE

Trainees mentored as a graduate student in biology education research, Arizona State University

Mary Kahraman, undergraduate student, Spring 2023 – present
Sarah Clark, undergraduate student, Fall 2023 – Spring 2024

LEADERSHIP

ASU School of Life Sciences Executive Board, Mental Health Committee Member

PROFESSIONAL SERVICE

Graduate and Professional Student Association, Award Reviewer, Fall 2022
Graduate and Professional Student Association, Award Reviewer, Spring 2023
Serve as a consultant on NSF-GRFP applications

- Each year review two applications with guidance offered anywhere from general idea and formatting development to heavy editing
- Offer a yearly workshop to new students in the ASU Biology and Society graduate program

Serve as a consultant within SOLS Biology and Society program for statistical mediation analysis

- Each year assist two student-led projects that involve statistical mediation analysis

Discipline Based Education Research Scholars in Training (DBER-SiT) Bylaws and Elections CoChair, 2022-2023

PROFESSIONAL SOCIETY MEMBERSHIPS

Society for the Advancement of Biology Education Research (SABER) (2023 – present)

New York Academy of Sciences (2022 – 2024)

American Society of Microbiology (2022 – 2023)

PROFESSIONAL DEVELOPMENT

SABER West. January 2024.

- The Path to Becoming a Community College Educator: A Workshop on Applying for Teaching Positions. Workshop by Dr. Parvaneh Mohammadian & Dr. Stephen Brown.

NSF INTERN Seminar. July 2023.

Gordon Research Conference: Biology Education 2023. June 2023.

- GRC Power Hour by Stacey Kiser and Tatiane Russo-Tait

Gordon Research Seminar: Biology Education. June 2023.

SABER West. January 2023.

- R ggplot2 workshop by Melissa Ko of UC Berkeley.
- DBER-SiT Regional Meeting

CITI Human Research: Social/Behavioral Research Investigators & Key Personnel Certification. January 2023.

SABER Seminars. 2022-2023.

SOLS Teaching Innovation Center: Inclusive Online Teaching Basics. August 2022.

Adobe Creative Campus Faculty Fellow Workshop. July 2021.

Dr. Jesse R. Peel LGBTQ Center: Safe Zone Member. April 2021.