

ZOE CRONIN

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EDUCATION

PhD	University of Texas at Arlington, Experimental Psychology	May 2030 (expected)
M.S.	University of Texas at Arlington, Experimental Psychology	May 2027 (expected)
BS	University of Delaware, Honors Neuroscience with Distinction Magna cum laude	May 2025
BA	University of Delaware, Honors Psychology Minor in Cognitive Science Magna cum laude	May 2025
GPA: 3.973		

HONORS AND AWARDS

American Association of University Professors (AAUP) – UD Award 2025
Selected by the University of Delaware’s AAUP chapter as one of two graduating seniors awarded for academic and research excellence with the intention of eventually becoming a university professor

Psychology Research Award 2025
Awarded to one graduating psychology student each year for demonstrating excellence in undergraduate research; selected by the University of Delaware Psychological and Brain Sciences Undergraduate Committee

Harward Munson Winter Fellow Award 2025
Full-time winter research grant for honors thesis research; selected by the University of Delaware Undergraduate Research Program

Plasket Summer Research Award 2024
Full-time summer research stipend; selected by the University of Delaware Psychological and Brain Sciences Undergraduate Committee

Winter Fellow Award 2024
Winter research stipend awarded by the University of Delaware Undergraduate Research Program

General Honors Award Award given for taking and passing at least 18 credits of honors coursework and keeping a GPA of at least 3.3	2023
Summer Fellow Award Part-time summer research stipend awarded by the University of Delaware Undergraduate Research Program	2023
University of Delaware Internship, Career, and Experience Grant Grant for an unpaid summer internship; selected by the University of Delaware Career Center	2023
University of Delaware Dean's List	2021-2025

RESEARCH EXPERIENCE

Coding of spatial direction in older and younger adults fMRI project,
University of Texas at Arlington, Arlington, TX 2025-Present
Graduate Research Assistant, Dr. Adam Barnas

- Apply MVPA classifier to preprocessed fMRI data for the transformation from one spatial format to another (scenes, schemas/arrows, and words)

Differences in spatial navigation and memory in aphantasia project,
University of Texas at Arlington, Arlington, TX 2025-Present
Principal advisor: Dr. Steven Weisberg

- Designing an original behavioral and imaging project to investigate any differences or deficits in spatial navigation and autobiographical memory in people with aphantasia
- Writing NSF Graduate Research Fellowship Program (GRFP) application research statement based on this proposed project
- Plan to collect pilot behavioral data in January prior to recruiting participants for the main study
- Will administer, conduct, and analyze data from navigation, imagery, and memory scales; pupillometry from eye tracking; and BOLD activation changes during task-based functional imaging

Honors Thesis: Neural Correlates of Object-Based Warping (defended),
University of Delaware, Newark, DE 2024-2025
Advisor: Dr. Timothy Vickery
Second Reader: Dr. Keith Schneider
Third Reader: Dr. Jaclyn Schwarz

- Used GLM regression and MVPA to investigate visual regions' roles in the illusory perception that occurs during object-based warping
- Assisted with the development of a multivariate model to accurately estimate position of point stimuli based on activation in early visual regions
- Applied MVPA classifier to instances of object-based warping, comparing estimated vs. actual positions of stimuli under various contextual conditions

Undergraduate Research Assistant on boundary extension fMRI project,
University of Delaware, Newark, DE 2023-2024

Advisor: Dr. Timothy Vickery

Collaborator: Dr. Helene Intraub

- Assisted with running fMRI scans for projects on visual processing
- Analyzed behavioral data, conducted MVPA, & analyzed localizer and classifier results using R, AFNI, & FSLeyes

Psychological Services Training Center,
University of Delaware, Newark, DE 2023

Clinical Assistant, Dr. Ryan Beveridge

- Provided coverage for clinicians
- Collaborated on literature reviews
- Worked with research sample of young children with ODD, CD, and ADD

Speech, Language Acquisition, and Multilingualism Lab,
University of Delaware, Newark, DE 2022

Undergraduate Research Assistant, Dr. Giovanna Morini

- Coded participant videos to track eye movements and assisted with study appointments
- Trained new research assistants, recruited participants, and updated REDCap records

TEACHING EXPERIENCE

University of Texas at Arlington, Arlington, TX August 2025 – Present

Graduate Teaching Assistant, Department of Psychology

- Statistics in Psychology (PSYC 2300) with Dr. Alan Hernandez: Statistics course that undergraduates in psychology at UT Arlington are required to take. Covers research methods, levels of measurement, the unit normal distribution, hypothesis testing, and basic statistical analysis of numerical data using the statistical software *Statistical Package for the Social Sciences (SPSS)*
- Teach students concepts during office hours each week
- Grade assignments on SPSS
- Proctor departmental exams as needed

University of Delaware, Newark, DE February 2022 – May 2024

Teaching Assistant, Department of Psychological and Brain Sciences

- Introduction to Neuroscience (NSCI 320) with Dr. Eric Roth: Second neuroscience course that majors at the university take; introduces students to neuroanatomy, neurophysiology, and case studies; includes lab and lecture components
- Tracked attendance (about 25 students per semester) and participation and grade students' quizzes and presentations
- Held exam review sessions and attended neuroanatomy labs to answer students' questions
- Met with students for advisement

PREPRINTS

Vickery, T., Singh, B., Levy, A., Sweetman, K., **Cronin, Z.**, & Intraub, H. (2025). Neural correlates of boundary extension during visual imagination. *bioRxiv: the preprint server for biology*, 2025.01.31.635941. <https://doi.org/10.1101/2025.01.31.635941>

PRESENTATIONS

Talk Abstracts

Timothy Vickery, Banjit Singh, Alyssa Levy, Kallie Sweetman, **Zoe Cronin**, and Helene Intraub, “Neural correlates of boundary extension during visual imagination,” *Journal of Vision*, 24(10), 2024, 289-289

Poster Presentations

Zoe Cronin, Michael Mugno, and Timothy Vickery, “Localization of Point-Like Stimuli Based on Activity in Visual Cortex,” *University of Delaware Winter Showcase of Undergraduate Research, Scholarly, and Creative Works*, 2025

Zoe Cronin, Michael Mugno, and Timothy Vickery, “Localization of Stimuli Based on Neural Activity in Early Visual Areas,” *Symposium for Undergraduate Research and Creative Activity at the University of Delaware*, 2024

Zoe Cronin, Banjit Singh, Michael Mugno, Kallie Sweetman, Helene Intraub, and Timothy Vickery, “Evidence of Boundary Extension from Searchlight Analyses,” *University of Delaware Winter Undergraduate Research and Creative Scholar Showcase*, 2024

Zoe Cronin, Banjit Singh, Alyssa Levy, Kallie Sweetman, Helene Intraub, and Timothy Vickery, “Neural Evidence of Boundary Extension During Imagery,” *Symposium for Undergraduate Research and Creative Activity at the University of Delaware*, 2023

PROFESSIONAL TRAINING

Level 1 MRI Safety Training Class

University of Texas at Arlington Clinical Imaging Research Center (CIRC), Arlington, TX, September 2025

Level 2 MRI Safety Training Class

University of Delaware Center for Biomedical and Brain Imaging, Newark, DE, January 2024

Level 1 MRI Safety Certification

University of Delaware Center for Biomedical and Brain Imaging, Newark, DE, June 2023

Concussion Alliance, Science Writer Summer Intern (Remote), June – August 2023

- Read the literature on concussion etiology, diagnosis, and treatment
- Wrote and published three summaries of empirical articles and cooperated to create a webpage on Squarespace

CITI Research Certifications

University of Delaware, Newark, DE

- CITI Human Subjects Protections Certificate (2023)
- CITI Responsible Conduct of Research Certificate (2023)
- Good Clinical Practice Certificate (2022)

INVITED TALKS

Guest speaker for the Concussion Alliance Summer Internship Program, June 2025

- Presented to the current internship cohort on my career journey from the beginning of my undergraduate program to my admittance to UT Arlington for my PhD
- Gave advice on how to benefit from the internship
- Discussed how to decide whether graduate school is the right next step and my advice for the graduate admissions process

PROFESSIONAL AFFILIATIONS

Nu Rho Psi National Honor Society in Neuroscience, 2022 - Present

- Co-president of chapter at the University of Delaware, May 2023-May 2025
 - Held monthly member meetings & led recruitment efforts
 - Planned and requested funding for events
 - Reviewed applications for membership and leadership positions
 - Collaborated with the Psi Chi chapter at the University of Delaware to organize joint events
- Member since 2022
 - Maintained GPA of at least 3.5 in neuroscience-related coursework and at least a 3.7 overall GPA

COMPUTER SKILLS

Applications: AFNI; FSLeys; SPSS; JASP Statistical Analysis; Microsoft Word, PowerPoint, & Excel; Google Docs, Slides, Drive, and Sheets; Datavyu; and REDCap

Platforms: Windows, Mac

Programming & Data Analysis:

- Python – took an introductory computer science course on Python in Spring 2025. Learned foundation concepts including but not limited to variables, for and while loops, and functions

- MATLAB and PsychToolbox – took an optional coding bootcamp course over the summer of 2025 in which I learned the foundations and how to code basic experiments with visual stimuli; applied classifier in projects using MATLAB
- Basic linear algebra data transformation techniques using Python: vectors, matrices, elementary operations, vector distances, RSA, matrix multiplication, linear transformations