

ANTHONY SEGO

131 Littleton Way, GA, 30606, USA | anthony.sego@uga.edu | 1 (502) 303-7548

EDUCATION

PhD.	<u>University of Georgia - Athens, Georgia</u> Neuroscience – Cellular Biology <i>Research Interests – The role of excitatory and inhibitory neural circuitry in development, behavior, and decision making</i> Cumulative GPA: 4.0 / 4.0	Expected 2028
B.S.	<u>Indiana University Southeast - New Albany, Indiana</u> Neuroscience Major Cumulative GPA: 4.0 / 4.0	May 2023
A.A.S	<u>Jefferson Community and Technical College - Louisville, Kentucky</u> Programming Track Cumulative GPA: 4.0 / 4.0	2015-2020

HONORS, FELLOWSHIPS, AND AWARDS

<u>Indiana University Southeast</u> Outstanding Student in Neuroscience	Spring 2023
Research Presentation Award	Spring 2023
Undergraduate Research Fellowship \$1000 Research Fellowship	Spring 2023
Undergraduate Research Grant \$210 Grant for Research Expenses	Spring 2023
Chancellor’s List	2021-2023
Undergraduate Research Summer Fellowship \$1000 Research Fellowship	Summer 2022
Common Experience Creativity Competition (3rd Prize) \$100 prize for creative work	Spring 2022
Indiana University Southeast – Tower Scholarship \$1000 Scholarship	Fall and Spring 2022

SERVICE AND AFFILIATIONS

Indiana University Southeast Psychology Club Co-President	Fall 2021-2023
Psi Chi Honor Society International Honor Society of Psychology	April 2022
Pinnacle Honor Society Distinguished Non-Traditional Students	February 2022
American Psychological Association Member	September 2022
Chancellor's Engagement Committee Committee dedicated to helping improve student engagement, particularly after pandemic restrictions	Fall 2022-Spring 2023
Geek Squad Academy Taught underprivileged children and young adults about technology and internet safety	June 2015

RESEARCH EXPERIENCE

Integrated Life Science Lab Rotation, University of Georgia

Fall 2023

Advisor: Dr. Daichi Kamiyama

- Conducted extensive literature review on *Drosophila melanogaster* genetics and neural connectomics, synthesizing key findings and contributing to project insights
- Applied stringent safety protocols and precise techniques in cell transfection with DNA plasmids, demonstrating proficiency in PPE usage, cell counting, and precise pipetting methods
- Proficiently performed dissections of first, second, and third instar *Drosophila melanogaster* larvae, employing microscopy for detailed analysis, central nervous system extraction, and proficient slide fixation techniques
- Developed expertise in confocal microscopy to capture high-resolution images, documenting and analyzing fluorescent proteins within cells and *Drosophila melanogaster* central nervous systems, contributing crucial data to ongoing research efforts

- Presented findings and discoveries to lab members, fostering collaborative discussions and contributing to the collective knowledge base

Integrated Life Science Lab Rotation, University of Georgia

Fall 2023

Advisor: Dr. Anna Abraham

- Engaged extensively with thematic analysis methodologies outlined in Braun and Clarke literature, cultivating a comprehensive grasp of their application in qualitative research
- Conducted a rigorous qualitative research study employing thematic analysis techniques to explore and interpret underlying themes of creative thinking by analyzing interview data sourced from the docuseries Abstract: The Art of Design, revealing nuanced insights into recurring themes of highly creative individuals
- Presented compelling findings and interpretations to fellow lab members, fostering insightful discussions that contributed to an enhanced understanding of creative processes within the realm of the cognitive process of design creativity

Integrated Life Science Lab Rotation, University of Georgia

Fall 2023

Advisor: Dr. Assaf Oshri

- Engaged deeply with literature on stress and environmental influences on human child development, extensively exploring the nuances of biological sensitivity to context and hormesis theory. Developed a robust understanding of their implications in environment, stress, and human development
- Delivered a comprehensive presentation elucidating the intricacies of the biological sensitivity to context theory to lab members, highlighting its pertinence in understanding human development

- Applied R studio to conduct data analysis on biopsychological data, revealing both linear and non-linear correlations between young adult social interaction experiences and patterns of alcohol consumption
- Uncovered nuanced relationships between young adult social interaction patterns and alcohol consumption, providing valuable insights with potential implications for further research or intervention strategies

Student Research Assistant Grant, Indiana University Southeast

Summer 2023

Advisors: Dr. Aimee Adam & Brittany A. Sizemore

- Collaborated with two professors in writing process of two papers for publication in which I completed the submission for publication process from start to finish (manuscript under review)
- Assisted in data collection, cleaning, and analysis for ongoing lab projects

Social Science Lab, Indiana University Southeast

Spring 2023

Advisors: Dr. Aimee Adam & Brittany A. Sizemore

- Completed in appropriate ethical training for human research
- Developed familiarization with background literature in social relations, disgust sensitivity, and sex differences in stimuli perception of verbal and visual items
- Collaborated with lab members to propose, design, and develop an online experiment related to human disgust sensitivity approved by IRB
- Assisted in cleaning, organizing, and analysis of experimental data using SPSS
- Presented results of research at the 2023 Mid-America Undergraduate Psychology Research Conference

Undergraduate Senior Research Project, Indiana University Southeast

Spring 2023

Advisors: Dr. Aimee Adam

- Developed familiarization with background literature in decision-making, the need for cognitive closure, intolerance for uncertainty, and social interaction
- Proposed, designed, developed and implemented a social interaction observational study utilizing deception approved by IRB
- Cleaned, organized, and analyzed study data using SPSS
- Presented results of research at the spring 2023 Indiana University Undergraduate Research Conference
- Completed process of writing a manuscript and submitting for publication based on results of research (under review)

Undergraduate Research Fellowship, Indiana University Southeast

Summer 2022 - Spring 2023

Advisor: Dr. Brittany A. Sizemore

- Participated in training of nonhuman animals in shaping and risk-taking behavioral tasks as well as ethics of research with nonhuman animals
- Developed familiarization with background literature in avian risk behavior research
- Executed set paradigms by following approved research protocols, including but not limited to proper handling of pigeons, efficient and accurate collection of data, and daily documentation of animals' well-being, health, food intake, and weight
- Assessed and addressed issues within laboratory facilities and experimental regimen on a daily basis to overcome situational challenges
- Corresponded with team in regular laboratory meetings, online Indiana University-sponsored programs via Canvas, and informal communication channels
- Performed data analysis using SPSS to interpret findings of experiments and developed materials to clearly convey findings to the scientific community via poster at the Indiana University Undergraduate Research Conference in 2022 and 2023

SCHOLARLY ACTIVITY

MANUSCRIPTS UNDER REVIEW

Sego, A. & Adam, A. (Under review). Ambiguous situations make me anxious: personality traits and initiating social interaction

MANUSCRIPTS IN PROGRESS

Sego, A., Adam, A. & Sizemore, B. That's gross: I love it! The influence of gender, sexual arousal, and stimulus type on sexual disgust sensitivity.

CONFERENCE PRESENTATIONS

Sego, A. (May 2023) *The Invisible wall between us: How cognitive motivation influences interactions with strangers*. Paper presented at the annual Indiana University Undergraduate Student Research Conference, New Albany IN.

Sego, A. (May 2023) *Risky business: Spatial probability learning in homing pigeons*. Poster at the annual Undergraduate Student Research Conference, New Albany IN.

Sego, A. (April 2023) *How sexual arousal and verbal vs. visual cues influence sexual disgust sensitivity in men and women*. Presented at the annual Mid-America Undergraduate Psychology Research Conference, Evansville IN.

Sego, A. (May 2022) *Spatial probability learning in homing pigeons: a preliminary report*. Poster at the annual Indiana University Undergraduate Student Research Conference, Indianapolis IN.

COMPUTER SKILLS

Programming: Java, SQL, R, Python, C#, PHP, HTML5, JavaScript, JSON, AJAX, and Flutter

Applications/Technologies: Azure DevOps, Anaconda, Fiji, IntelliJ, RStudio, Android Studio, XCode, Oracle SQL Developer, REST APIs, Postman, Samanage, Microsoft Office, Zoom, WinSCP, PuTTY, Adobe Photoshop and Premiere, iWorx, LabScribe, Qualtrics, and SPSS

Platforms: Windows, Mac, and Linux

RELEVANT COURSEWORK AND TRAINING

University of Georgia, Athens, Georgia

- **Rigor, Reproducibility, and Transparency** Fall 2023
- **Responsible Conduct in Research** Fall 2023
- **Critical Reading of Primary Literature** Fall 2023

Indiana University Southeast, New Albany, Indiana

- **Collaborative Institutional Training Initiative (CITI)** April 2022
IUEHS Safety & Health for Animal Users Training
- **QPR Suicide Prevention Training** Fall 2022
Gatekeeper Certified
- **Medical Science for Health Info I** Summer 2021
- **Biomedical Ethics** Fall 2021
- **Behavioral Neuroscience** Fall 2021
- **Molecular Biology** Spring 2022
- **Research Methods and Statistics I & II** Spring 2022, Fall 2022
- **Cognitive Psychology** Summer 2022
- **Sensation and Perception** Summer 2022
- **Drugs and the Nervous System** Fall 2022
- **Non-Credit Independent Study** Fall 2022

Founded training study with Dr. Adams to identify, organize, learn and train others in iWorx equipment to measure psychophysiological data such as galvanic skin response, heart rate, blood pressure, reaction time, and ECG using LabScribe software that will be used as a class in the future

Other

- Trained in online case study tutorial for utilizing Python to plot graphs of EEG and ERP data

PROFESSIONAL EXPERIENCE

Ez-Chow

Louisville, KY

Software Developer

February 2019 – Present

- Developed and implemented customized software solutions in Java and mobile applications that have generated over \$76 million and over 2 million transactions in the United States and Jamaica
- Created internal and external tools using ex for generating reports and increasing efficiency in processes that have facilitated our company breaking its own sales records and reaching over \$63,000 in net sales monthly
- Authored clear and concise documentation regarding solutions and procedures to be applied as training documents for internal employees and external clients of over 115 companies and 280 locations
- Troubleshoot, debug, enhance, and repair production software applications through use of error logs and ticketing system
- Maintained a 4.0 GPA while working 40+ hours a week

Louisville Metro Government

Louisville, KY

Cybersecurity Analyst (Intern)

August 2018 - December 2018

- Developed and implemented Secure Development Life Cycle to increase security and efficiency for developer and production teams
- Planned themes and activities for National Cybersecurity Awareness Month to decrease overall data loss and increase cybersecurity awareness within the organization
- Developed and implemented quick response action plans and flowcharts for security incidents and general proactive tasks
- Developed marketing strategies for the Metro Cybersecurity Twitter account for more engagement with the general public in terms of cybersecurity awareness and training

GE/Compucom

Louisville, KY

L2 Deskside Support

January 2017 - February 2019

- Provided admin support for GE VPN issues through DUO Mobile 2-Factor Authentication application
- Re-organized and implemented user setup guides for devices to reduce ticketing time and volume by at least 10 hours of labor each week
- Displayed courtesy and strong interpersonal skills with all clients through phone and deskside support
- Diagnosed and repaired hardware and software issues for computers and mobile devices
- Managed access of GE AT&T and Verizon company- telecommunication accounts for changing phone plans, ordering devices, and transferring telephone numbers of over 7100 facility employees
- Resolved all telecommunication, hardware, and software issues in a timely manner through organization and management of ticketing system, and provided follow-up service to employees when necessary

Mobile Technology Incorporated

Louisville, KY

Technician

November 2015 - September 2016

- Diagnosed and repaired security modules, product displays, and perform software/firmware updates inside live retail locations such Best Buy, Apple, Target, Verizon, and AT&T stores to prevent loss for clients.
- Organized and maintained my own work schedule and travel itinerary to assess and restore reported, and non-reported, security flaws discovered on site in several locations throughout the Kentuckiana region with limited supervision
- Demonstrated and trained employees of clients to the functionality of security equipment and provided detailed notes of evaluation for each visit

Geek Squad

Louisville, KY

SSCIA Technician Supervisor

CIA Technician

March 2011 - April 2016

September 2010 - March 2011

- Earned promotion in 6 months through capacity to assimilate and apply new concepts efficiently and demonstrate ability to educate others on my most productive methods
- Displayed vast knowledge of all brands and models of computers and tablets used to help implement guides for hardware and software repairs of devices including, but not limited to motherboards, LCDs, I/O boards, peripherals, and Windows operating system
- Assisted managers in leading teams, piloting new processes, performing employee yearly evaluations, and interviewing new candidates for employment.
- Worked on a special project team to bring in more revenue from previously untapped sources in refurbishing electronics other than computers
- Diagnosed and repaired computers with efficiency and quality and responsible for supervision and training of new technicians
- Nominated for Employee of the month by supervisors several times for exceeding metrics and displaying leadership ability by consistently surpassing target of 8 daily repairs with a mean of 12 repairs, less than 3% return rate of devices, and assisting others in reaching their target goals

REFERENCES

Dr. Brittany A. Sizemore, Ph.D.

School of Social Sciences

Indiana University Southeast

Phone: 1 812-941-2369

Email: brsizemo@iu.edu

Dr. Aimee Adam, Ph.D.

School of Social Sciences

Indiana University Southeast

Email: asedison@iu.edu

Dr. Christine L. Adams, Ph.D.

School of Social Sciences

Indiana University Southeast

Email: chladam@ius.edu

Dr. Megan C. Kahn, Ph.D.

School of Social Sciences

Indiana University Southeast

Phone: 1 812-941-2174

Email: mckahn@ius.edu