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location Charleston, South Carolina

code github.com/ewingard

EDUCATION

College of Charleston | Charleston, South Carolina

2026 – Present

Master of Arts in History with Concentration in Public History

- **GPA:**
- **Thesis:**
- **Related Coursework:**
 - Historiography
 - Heritage Interpretation

State University of New York (SUNY) Oswego | Oswego, New York

2019 – 2023

Bachelor of Arts in Psychology and Cognitive Science with Minor in French - *Magna Cum Laude*

- **Honors Project:** The Impact of Biases in Facial Recognition Artificial Neural Networks

PROFESSIONAL AND COMMUNITY EXPERIENCE

Digital Library Analyst, [Lowcountry Digital Library](#)

Aug. 2025 – Present

College of Charleston (CofC) | Charleston, South Carolina

- Create and perform quality control checks for metadata for over 15,000 files, following the MODS metadata schema and using approved thesauruses for controlled subject headings.
- Upload to over 31 digital collections in various formats, including text, multimedia, and image data.
- Execute digital information search and retrieval processes, supporting digital reference services for partner organizations.
- Update 12 WordPress webpages and 2 Windows servers maintained by the Library to reduce security risks and enforce accessibility compliance through WCAG standards.
- Conduct minor historical research by referencing Finding Aids to create accurate metadata, supporting researchers.

Psychology Summer Camp

Jun. 2025 – Jul. 2025

Brain Research Across Development Lab, Study of Trauma, Adolescents, Relationships & Resilience Lab, University of South Carolina (UofSC) | Columbia, South Carolina

- Recorded detailed behavioral observations across activities, tracking mood, participation, and social interaction to enhance clinical team support.
- Coordinated four weeks of psychology summer camps for 20 adolescents, overseeing logistics, staff collaboration, and camper engagement.
- Designed and taught curriculum on psychology methods and theories for camp participants.

Rooster Tales Summer Camp Jun. 2024, 2025

Brain Research Across Development Lab, Theater Department, University of South Carolina (UofSC) | Columbia, South Carolina

- Administered protocol and completed survey measures for a study on a theatre summer camp facilitating resilience in autistic adolescents ages 10-14.
- Developed, formatted, implemented, and tracked survey measure completion for 8-9 participants and parents using REDCap.

Peer Support & Social Group Facilitator

Nov. 2024 – Jul. 2025

Harriet Hancock Center | Columbia, South Carolina

- Facilitate and lead group discussions on topics pertaining to supporting transgender, gender non-conforming, and non-binary communities.

- Provided emotional support to up to 20 attendees per month, focusing on mental health and peer support.
- Collaborate with Communications Coordinator to create social media posts and boost engagement for social and peer support groups.
- Attend community events with the Harriet Hancock Center to provide resources and knowledge on LGBT+ services in the Columbia, South Carolina area.

RESEARCH EXPERIENCE

Research Assistant, [Brain Research Across Development Lab](#) (B-RAD Lab, PI: Caitlin Hudac) *Feb. 2024 – Jul. 2025*

University of South Carolina (UofSC) | Columbia, South Carolina

- Facilitated data collection for 150+ sessions using EEG, ECG, structured interviews, surveys, and behavioral assessments with participants of diverse ages, demographics, and life experiences.
- Developed visual stimuli for the *Social Connection and Well-Being* study using E-Prime, Photoshop, MATLAB, Generative Adversarial Networks (GANs), and convolutional neural networks (CNNs).
- Mentored 12 undergraduate researchers, whose research collectively produced 7 posters, presented at local and international conferences.
- Recruited and retained 54 participants for a longitudinal research study, tracking and reporting payments, recurring study visits, and survey measure completion in Excel.
- Developed 14 REDCap databases across 5 studies for research data entry, maintained to ensure streamlined retrieval for downstream processing efforts.

Volunteer Researcher, [Study of Trauma, Adolescents, Relationships, & Resilience](#) (PI: Michelle Brown) *Jul. 2023 – 2026*

University of South Carolina (UofSC) | Columbia, South Carolina

- Authored research papers and refined introduction, methods, results, and discussion sections.
- Collaboratively discussed drafting procedures and create mutually beneficial guidelines to complete manuscripts
- Assisted with literature reviews and ensured all documents adhered to APA formatting, including tables and datasets.
- Identified and evaluated suitable journals for publication, considering impact factors and submission requirements.
- Reviewed analytic plans for manuscripts and ensure accuracy and consistency of results by running analyses and checking previous outputs for errors and changes.

Honors Thesis (Supervised by Dr. John K. Lindstedt and Dr. Theo Rhodes)

Aug. 2022 – May 2023

SUNY Oswego | Oswego, New York

- Conducted an independent thesis project exploring the role of biases in facial recognition artificial neural network processing of faces based on gender identity, with a focus on transgender populations.
- Analyzed interdisciplinary literature on AI algorithms, human-centered computing, and gender studies to inform the creation of an AI algorithm that is debiased on gender identity.
- Developed technical proficiency in AI-centered programming, including PyTorch, Python, and TensorFlow.
- Created a neural network, scraping script, and two novel datasets to compare debiased vs biased AI algorithms on different gendered faces.
- Authored a comprehensive, multidisciplinary thesis addressing gaps in AI ethics and advocating for historically underrepresented demographics in facial recognition processing.

Data Collector, JKLAB (PI: John K. Lindstedt)

May – Dec. 2022

SUNY Oswego | Oswego, New York

- Assisted a Human-Computer Interaction (HCI) master's student project on spatial audio perception in online spaces.
- Recruited participants through SONA Systems, ensuring strict adherence to lab guidelines and procedures.
- Created and refined experimental auditory stimuli.
- Implemented basic JavaScript syntax for task execution.
- Collaboratively organized project information to meet deadlines and ensure accurate data collection.

Undergraduate Research Assistant, Cognitive Neuroscience Lab (PIs: Sien Hu, Theo Rhodes)

Apr. 2021 – May

2023

SUNY Oswego | Oswego, New York

- Developed a comprehensive script to analyze behavioral functional magnetic resonance imaging (fMRI) data, focusing on reaction time dynamics in control and aphantasic participants.
- Conducted extensive literature reviews to understand fMRI methods and data collection techniques.
- Assisted in the dissemination of fMRI results and drafted manuscript for publication.
- Completed a safety exam and earned certification to use the 3T CABIN MRI machine at the University of Rochester.

Undergraduate Research Assistant, Relationships Across Development Lab (PI: Matthew Dykas)

Jan. 2020 – Apr. 2021

SUNY Oswego | Oswego, New York

- Recruited participants through SONA Systems for a research study.
- Collected data from 10 participants via Zoom, adhering to study protocols and maintaining confidentiality
- Followed extensive protocols to ensure accurate data collection and data entry
- Collaboratively troubleshooted data collection measures and worked with a team to ensure measures were functional.
- Presented preliminary research findings through a poster presentation at SUNY Oswego's annual research symposium.
- Collaborated with a cohort of undergraduate students to organize data, evenly distribute tasks, and manage workload.

TECHNICAL SKILLS AND CERTIFICATIONS

Research and Technical Software:

Programming Languages

- | | | |
|-------------------|--------------|--------------|
| • SPSS | • MATLAB | • Git |
| • Python, PyTorch | • HTML | • Java |
| • R (tidyverse) | • CSS | • TensorFlow |
| | • JavaScript | • PostgreSQL |

Software and Applications:

- | | | |
|------------------------------------|---|-----------------|
| • E-Prime | • REDCap | • ResourceSpace |
| • Adobe Suite (Photoshop, Acrobat) | • MS Office (Excel , OneDrive, SharePoint, Teams) | • Aviaary |
| | • Google Drive | • Trint |
| | | • WordPress |

Languages:

- | | | |
|-----------------------------|------------------------|----------------------|
| • French (C1, Near Fluency) | • ASL (Conversational) | • Spanish (Beginner) |
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Certificates:

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| • CITI Social & Behavioral Researchers Certificate | 2024 |
| • CITI Responsible Conduct of Research Certificate | 2024 |

PUBLICATIONS

1. **Wingard, E.M.** (2023, May). *The Impact of Biases in Facial Recognition Artificial Neural Networks*. Illuminate NRHC, 5, 25-32. ([paper](#))

PRESENTATIONS

1. **Wingard, E.M.**, Mobley, Tyler (2026, August). *Beyond the Black Box: Digital Library Workflows Behind the Lowcountry Digital Library*. Presented at LibLearning Retreat, Charleston, SC.
2. **Wingard, E.M.**, Nelson, C.M., Xia, M., & Hudac, C.M. (2025, April). *Is Friendship in the Cards? How Adolescent Brains Make Quantity Decisions Involving Friendship*. Presented at the Social & Affective Neuroscience Society annual meeting, Chicago, IL. ([poster](#))
3. Johnson, M., **Wingard, E.M.**, Nelson, C.M., & Hudac, C.M. (2025, April). *Do I know you? Influence of adolescent social interactions on brain responses to familiar and AI-generated faces*. Presented at the Social & Affective Neuroscience Society annual meeting, Chicago, IL. ([poster](#))

4. Arcement, J., Patel, M., **Wingard, E.M.**, Cheever, A., McFadden, J., Nelson, C.M., & Hudac, C.M. (2025, April). *The Influence of Anxiety on Social Preferences in Adolescents: Exploring Group Size and Duration Choices*. Presented at DiscoverUSC, Columbia, SC. ([poster](#))
5. Hersey, J., Du Plessis, V., **Wingard, E.M.**, McFadden, J., Nelson, C.M., & Hudac, C.M. (2025, April). *Social Quantity Preferences in Adolescence: Investigating the Correlation between the Need to Belong and Decisions in Social Quantity*. Poster at DiscoverUSC, Columbia, SC. ([poster](#))
6. **Wingard, E.M.**, Cheever, A. (2024). *Importance of Inclusion in Science*. B-RAD lab website article. ([article](#))
7. Nelson, C. M., Johnson, M., **Wingard, E. M.**, & Hudac, C. M. (2024, May). *Characterizing friendships and other relationships in autistic adolescents*. Talk at The Love Consortium, Chapel Hill, NC. ([slides](#))
8. Hersey, J., Morgan, A., Cheever, A., Nelson, C.M., **Wingard, E.M.**, & Hudac, C.M. (2024, April). *Exploring Nonverbal Communication Differences Among Individuals in Romantic Partnerships: A Neuroscientific Perspective*. Award-winning section poster presented at DiscoverUSC, Columbia, SC. ([poster](#))
9. McCune, M., Turner, B., Vidal, L., Nelson, C.M., **Wingard, E.M.**, & Hudac, C.M. (2024, April). *The Adolescent Brain: Quantifying the Relationship Between Social Awareness and Perception of Upright and Inverted Faces*. Presented at DiscoverUSC, Columbia, SC. ([poster](#))
10. Khan, M., Patel, M., Tupple, B., **Wingard, E.M.**, Nelson, C.M., & Hudac, C.M. (2024, April). *The Effect of Sleep Quality as Measured by Couple's Sleep Performance in Charades*. Presented at DiscoverUSC, Columbia, SC. ([poster](#))
11. Johnson, M., **Wingard, E. M.**, Nelson, C.M., & Hudac, C.M. (2024, April). *Do I Know You? Brain Responses to Familiar and AI-Generated Faces*. Presented at DiscoverUSC, Columbia, SC. Presented at the Social & Affective Neuroscience Society annual meeting, Toronto, Canada. ([poster](#))
12. **Wingard, E.M.** (2023, March). *The Impact of Biases in Facial Recognition Artificial Neural Networks*. Presented at Northeast Regional Honors Conference (NRHC), Pittsburgh, PA. ([poster](#))
13. **Wingard, E.M.** (2023, April). *The Impact of Biases in Facial Recognition Artificial Neural Networks: Towards More Ethical AI Past, Present, and Future*. Presented at Quest Week, Oswego, NY. ([slides](#))
14. **Wingard, E.M.** (2023, April). *French Polynesia: Flora and Fauna*. Presented at Quest Week, Oswego, NY. ([slides](#))
15. Dykas, M., **Wingard, E.M.** (2021, April). *Does Making Narcissists 'Feel Bad' Make Them Want to Be Better People?* Presented at Quest Week, Oswego, NY. ([poster](#))

VOLUNTEER INVOLVEMENT

Peer Reviewer 2026

DigitalArc | Remote

- Reviewed and critiqued a toolkit for DigitalArc, providing suggestions on improvements for community audiences
- Collaborated with authors to provide constructive feedback, enhancing the quality of submissions.

Buist Academy Digital Research Mentor 2026

College of Charleston, Buist Academy | Charleston, South Carolina

- Created a research quick-start guide to train students on discerning reliable sources
- Supervised 11 students group projects, ensuring deadlines and goals were met

Volunteer Copyeditor and Writer 2026

Wikimedia Foundation | Remote

- Edit over 200 articles to improve readability, information searches, and remove biased language, with popular articles averaging around 200,000 views daily.
- Cooperatively revise pages through Wikimedia Events, adding 684 words and 6 references for historical accuracy of the Transatlantic Slave Trade, culminating in over 5,310 article views.

Volunteer Transcriber 2026

South Carolina Historical Society, Library of Congress, National Archives, Smithsonian, Zooniverse | Remote

- Transcribed over 100 pages across 15 campaigns to improve accessibility and searchability of digital manuscripts and materials for researchers.
- Reviewed over 30 transcriptions from other users, ensuring accuracy of contents prior to publication.
- Translated 5 historical documents from French to English for metadata creation, summarizing relevant historical details.

Volunteer Map Editor

2026

OpenStreetMap | Remote

- Contribute to the production of professional high-quality static and interactive maps.
- Update geographic and spatial information by applying field surveys, and satellite imagery.

Volunteer Software Developer

2025 – Present

FreeMoCap Foundation | Remote

- Drafted comprehensive user manuals and documentation facilitating the creation and access to SkellyBot servers.
- Engaged in ideation processes informed by end-user feedback to streamline operational efficiency.

Volunteer Judge, SC Junior Science and Humanities Symposium (JSJS), University of South Carolina Region II Science and Engineering Fair, DiscoverUSC

2024 – 2025

University of South Carolina | Columbia, South Carolina

- Adhered to established training and protocols to evaluate high school and undergraduate students' symposium posters and presentations.
- Worked collaboratively with fellow judges to ensure equitable ranking.
- Offered constructive feedback and specialized mentorship to student presenters, assessing approximately 25 posters.

Carolina Autism and Neurodevelopment Research Center (CAN) Trainee Committee

2024 – 2025

University of South Carolina | Columbia, South Carolina

- Organized and executed events tailored for diverse campus audiences, ranging from undergraduates to post-doctoral scholars and early-career scientists.
- Facilitated group discussions, moderating meetings to transform stakeholder feedback into actionable strategies.
- Collaborated with faculty from multiple departments to design and implement informative and engaging events.

Advisory Board Member, Ph.D. Candidate, Rhys Dreeszen-Bowman

2024 – 2025

University of South Carolina | Columbia, South Carolina

- Actively participated in team meetings, contributing innovative ideas and offering collaborative feedback on research methodologies and interview questions.
- Assisted in developing a community-focused media resource aimed at supporting South Carolinians.
- Engaged in outreach initiatives, boosting community awareness and participation in dissertation research.

Thesis Advisor, Ph.D. Candidate, Miranda Foster

2024

University of South Carolina | Columbia, South Carolina

- Supported thesis revisions acting as a subject matter expert, ensuring survey measures were respectful and accurate for dissertation research
- Collaborated with the Ph.D. candidate to review and refine survey instruments, enhancing validity and reliability for capturing diverse gender experiences
- Offered insights on current best practices in inclusive research methodologies, ensuring alignment with ethical standards to USC

HONORS AND AWARDS

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- | | |
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| • TransTech Social x Linux Foundation Training & Certification Scholarship (\$600) | 2024 |
| • SUNY Oswego Student Travel Award (\$325) | 2023 |
| • Distinguished Cognitive Science Senior Award & Excellence in French Award, SUNY Oswego | 2023 |