

Elizabeth Jiwon Im

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Education

Stanford University (Stanford, CA) 2024 - Current

PhD student in Psychology - Neuroscience area
Advisor: Dr. Kalanit-Grill Spector

Johns Hopkins University (Baltimore, MD) 2018 - 2022

B.A. in Cognitive Science (focal area: computational neuroscience)
B.A. in Medicine, Science, and Humanities
Cumulative GPA 3.85 | Major GPA: 4.00

Research Experience

Computational Cognitive Neuroscience Lab @JHU (PI: Dr. Leyla Isik) Baltimore, MD
Lab Manager *January 2023 – August 2024*

- Lead research project investigating the developmental trajectory of social perception in publicly-available fMRI movie data
- Analyze fMRI data using Inter-subject correlation (ISC) analysis, Region of Interest analyses and voxel-wise encoding models

Undergraduate Researcher *May 2022- January 2023*

- Annotated different linguistic and speech features in a movie stimulus, and analyzed their contributions to fMRI data to investigate social cognition and better understand how people categorize social scenes
- Trained voxel-wise encoding model with the annotated data to investigate potential new features that may predict social brain activities based on fMRI data

Cognitive Neuroscience Lab @JHU (PI: Dr. Michael McCloskey) Baltimore, MD
Undergraduate Researcher *January 2021 - December 2022*

- Led an independent research on Graphic Motor Plan and investigated whether visual feedback affects or changes the stroke direction when writing
- Developed new stimulus set for participant testing sessions, read current dysgraphia research papers, and analyzed statistical data from 3 participants with dysgraphia in the on-going study and compared the results to that of typical writers
- Tested subjects for the developmental dysgraphia study, communicated with family and prepped for test sessions, learned to score different neuropsychological diagnostic tests

Chen Lab @ JHU (PI: Dr. Janice Chen)

Baltimore, MD

Undergraduate Research Assistant

May 2021 – May 2022

- Dense feature and timestamp labeling for naturalistic movie stimuli interpretability
- Using original Python script, analyzed and extracted data from a naturalistic memory study to categorize actions from movie clips

SPARC Lab @ JHU (PI: Dr. Jeff Bowen)

Baltimore, MD

Summer Undergraduate Researcher

May 2022- August 2022

- Worked on Panel Analysis of Intimate Relationships and Family Dynamics data (PAIRfam; longitudinal research conducted over a decade) and used R to extract and merge intimate and romantic relationship relevant data
- Updated literature review with current papers on mental representations of intimate relationships, long-distance relationships, eye-tracking methodology, among other topics
- Contributed to designing future studies and improved current studies on Qualtrics to address glitches and presentation problems

Lab for the Developing Mind @ NYU (PI: Dr. Moira Dillon)

New York, NY (Remote)

Summer Research Assistant

May 2021- July 2021

- Recruited participants using university-wide lab database *BabyChildTeen* and contacted parents of potential participant babies
- Encoded and labeled children's response for analysis

PSN Lab @ Korea University (PI: Dr. Jiwon Hur)

Seoul, South Korea

Summer Research Assistant

July 2020 – August 2020

- Reviewed 30 research papers for meta-analysis paper on using XR technology in psychiatric treatments for emotion regulation
- Co-Led weekly Python learning sessions for neuroimaging and presented on Emotional Regulation research

Publications

Im, E., Shirahatti, A, and Isik, L. (in press) Early neural development of social perception: evidence from voxel-wise encoding in young children and adults. *Journal of Neuroscience*.

Preprint: PsyArXiv, doi: [10.31234/osf.io/aqryd](https://doi.org/10.31234/osf.io/aqryd)

McCloskey, M. & **Im, E.** "Effector Independence in Writing." (Manuscript in prep)

Research Presentations

Im, E., Shirahatti, A., Isik, L. "Early neural development of social interaction perception: evidence from voxel-wise encoding in young children and adults" Presented as at Stanford Vision Brunch 2024 (Stanford, CA), Talk

Im, E., Shirahatti, A., Isik, L. “*Early neural development of social interaction perception: evidence from voxel-wise encoding in young children and adults*” Presented as at Cognitive Computational Conference 2024 (Cambridge, MA), Poster

Im, E., Shirahatti, A., Isik, L. “*Early neural development of social perception: evidence from voxel-wise encoding in young children and adults*” Presented as at Vision Science Society Annual Conference 2024, Talk

Im, E., Shirahatti, A., Isik, L. “*Investigating the neural development of social scene perception in young children using naturalistic stimuli.*” Presented at Seeing and Action Workshop (Coimbra, Portugal) 2023 *Poster and Talk, ANT Neuro Travel Award Winner

Im, E., Shirahatti, A., Isik, L. “*Investigating the neural development of social scene perception in young children using naturalistic stimuli.*” Presented at Vision Science Society Annual Conference 2023

Im, E. & McCloskey, M. “*Examining the effect of visual feedback on English handwriting stroke pattern direction.*” Presented at Omega Psi Annual Spring Conference 2022

Im, E. & McCloskey, M. “*Examining the effect of visual feedback on English handwriting stroke pattern direction.*” Presented at JHU DREAMS Conference 2022

Honors & Awards

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| 2023 | ANT Neuro Travel Award, Seeing and Action Workshop 2023 |
| 2022 | University General Honors, Johns Hopkins University |
| 2022 | Departmental (Cognitive Science) Honors, Johns Hopkins University |
| 2022 | <i>Blue Hatchlings</i> , JHU Fast Forward U Accelerator Program Seed Grant |
| 2022 | Faculty-selected Best Poster, Omega Psi 2022 Spring Conference |
| 2022 | Student-voted Favorite Poster, Omega Psi 2022 Spring Conference |
| 2022, 20, 18 | Dean’s List, Johns Hopkins University |
| 2021 | JHU Life Design Lab Summer Funding Award |
| 2020-22 | Honors, Omega Psi Cognitive Science Undergraduate Society |
| 2018 | Cum Laude Society, Mercersburg Academy |
| 2018 | John Mountain Prize for the Best Essay, Mercersburg Academy |
| 2015-17 | Honorary Mention, Scholastics Arts and Writing Awards |

Academic Position and Service

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| 2024 | Panelist, <i>Paths to PhD</i> , Stanford Department of Psychology |
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| 2022, Fall | Course Assistant, <i>Ethics of Artificial Intelligence and Automation</i> |
| 2021-22 | Membership Chair & Board member, <i>Omega Psi Cognitive Science Undergraduate Society</i> |
| 2021-22 | Mentor, <i>Omega Psi Cognitive Science Undergraduate Society</i> |

Technical Skills

Cluster computing, Python, MATLAB, R, Bash Scripting, MRICron, Jupyter, Qualtrics, Blender, PyHab, LookIt, Google suite, Microsoft Suite, Figma, Copyediting

Leadership & Volunteering

Blue Hatchlings, Fast Forward U @ JHU

Baltimore, MD

Founder

September 2022 – Current

- Student-led, not-for-profit start-up with an end goal to establish an accessible and affordable childcare center for everyone in the Johns Hopkins University community
- Early childhood education practicum course partner with Teaching and Learning Program at Johns Hopkins University School of Education

Johns Hopkins University

Baltimore, MD

Peer Study Consultant

January 2021 - June 2023

- Advise 2-3 peer students on study habits per semester (weekly study planning and other academic related concerns)
- Selective process, nominated based on GPA, academic strength and character

Freshman Pre-Orientation Leader

August 2022

- Lead a group of 27 incoming freshmen to help them acclimate to their new environment, navigate resources, organize educational and social activities, and continue to be a part of their support system throughout their first year of college

Camp Charm City, American Diabetes Association

Baltimore, MD

Counselor

August 2022

- Overlooked 7 campers (ages between 10-12) with type-1 diabetes for five days and led activities such as sports and talent show practices
- Mitigated conflicts between campers and helped everyone have a fun time
- Assisted medical staff with the campers' blood sugar and insulin monitoring

Johns Hopkins Tutorial Project

Baltimore, MD

Tutor

January 2019 – May 2019

- Tutored a local elementary student (5th grade) on math and reading, twice a week
- Developed creative approaches for student to enjoy reading and learning process

Child Life Center, Kennedy Krieger Institute @ JHMI

Baltimore, MD

Volunteer

September 2018 – January 2018

- Led art craft sessions on weekends as a part of BelieveInArt, a volunteering group at Johns Hopkins University that brings art classes to serve the local communities in Baltimore

Other Experiences and Selected Literary Publications

Columnist, Johns Hopkins News-Letter 2018 – 2021

Wrote [bi-weekly columns](#) for student-run newspaper at Johns Hopkins University on transitioning in time, physical space, and identity

Student Blogger, Communications Intern (DIS Sweden) 2020

Selected through a multi-step selection process to work as a student blogger during a Study Abroad semester in Stockholm, Sweden (<https://unicornwrites.travel.blog>)

Finalist, The Apprentice Writers Literary Magazine 2018

Non-fiction writing *Here Lies Lobster* selected as the Pennsylvania state representative for a national publication

Author, Fantastic Bird 2018

Wrote and painted accompanying illustration for a children's book, Fantastic Bird