Elizabeth Jiwon Im

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Education

Johns Hopkins University (Baltimore, MD)   *December 2022*
       B.A. Cognitive Science & B.A. 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 – Current*
- Lead research project investigating the developmental trajectory of social perception in publicly-available fMRI movie data using (Manuscript in prep: **Im, E**., Shirahatti, A., Isik, L. *"Neural development of social scene perception in young children using naturalistic stimuli.")*
- Analyze fMRI data using Inter-subject correlation (ISC) analysis, Region of Interest analyses and voxel-wise encoding models
- Run fMRI, EEG and eye tracking studies, including participant recruitment, fMRI technician training and study set up.

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 (MATLAB script) 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 - Current*
- Asked a novel research question regarding Graphic Motor Plan and investigated whether visual feedback affects or changes the stroke direction when writing (Manuscript in Prep: McCloskey, M. & **Im, E**. *"Effector Independence in Writing"*)
- Planned research design, and conducted data collection and presented at two conferences
- Developed stimulus set for participant testing sessions, read current dysgraphia research papers, and analyzed statistical data from 3 participants in the on-going dysgraphia study and developed new tests
- Tested control subject (9yrd old, female) for dysgraphia study, communicated with family and prepped for test sessions, learned to score different neuropsychological diagnostic tests

SPARC Lab @ JHU (PI: Dr. Jeff Bowen)   Baltimore, MD
Undergraduate Researcher   *May 2022- August 2022*
- Worked on Panel Analysis of Intimate Relationships and Family Dynamics [data](#) (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

Chen Lab @ JHU (PI: Dr. Janice Chen)   Baltimore, MD
Undergraduate Research Assistant   *May 2021 – May 2022*
- Using original Python script, analyzed and extracted data from a naturalistic memory study to categorize actions from movie clips
- Contributed to design of 3 pilot studies: troubleshooted and proposed suggestions for improvements

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., Isik, L. *"Neural development of social scene perception in young children using naturalistic stimuli."* (Manuscript in prep)

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

Research Presentations

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

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	*Blue Hatchlings*, 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 LDL Summer Funding Award ($1000 + remote work material stipend)
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 Positions and Mentorship

2022, Fall	Course Assistant, *Ethics of Artificial Intelligence and Automation*
2021-22	Membership Chair & Board member, *Omega Psi Cognitive Science Undergraduate Society*
2021-22	Mentor, *Omega Psi Cognitive Science Undergraduate Society*

Technical Skills

NILearn, Cluster computing, Python, MATLAB, R, Bash Scripting, MRICron, Jupyter Notebook, 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

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

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