

Seojin Lee

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EDUCATION

Johns Hopkins University <i>BS Computer Science, BA Cognitive Science</i> <ul style="list-style-type: none">Cumulative GPA: 3.97/4.00Awards: Dean's List (all semesters), Graduated with General Honors and Departmental Honors in Computer Science (BS) and Cognitive Science (BA)	Baltimore, MD 2021 - 2024
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RESEARCH EXPERIENCE

Issa Lab, Columbia University <i>Research Technician</i> <ul style="list-style-type: none">Compare neural network and human performance on geometry-based face recognition tasks; optimize model training using face meshes captured with Apple ARKit; morph face meshes to add emotion variations in training sets using MkTurk.	New York, NY Jul 2024 - Current
Brown Lab, Johns Hopkins University <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Analyzed large-scale electrophysiological datasets of mouse visual cortex during a visual behavior task; performed layer-wise and cell type-wise analysis of visual cortex neurons; developed computational tools using Python and MATLAB.	Baltimore, MD Oct 2022 - May 2024
VeriVITAL Lab, Vanderbilt University <i>Summer Research Intern</i> <ul style="list-style-type: none">Developed and implemented a benchmarking tool to verify the robustness of segmentation neural networks; created MATLAB scripts for processing various open-source image datasets and trained networks for performance evaluation.	Nashville, TN May 2023 - Aug 2023
Computational and Psycholinguistics Lab, Johns Hopkins University <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Assisted a multi-site linguistic experiment investigating how subjects process complex-structured sentences in real-time using eye trackers; trained on modern psycholinguistics protocols and techniques and the operation of eye-tracking software.	Baltimore, MD Sep 2021 - Dec 2022

TEACHING EXPERIENCE

<i>Course Assistant, Intro Algorithms (supervised by Dr. Gagan Garg)</i> <ul style="list-style-type: none">Facilitated weekly office hours and study sessions, providing guidance on algorithm design and analysis.	Sep 2023 - May 2024
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AWARDS & SCHOLARSHIPS

Palantir Women in Technology Scholarship	Jul 2022 - May 2023
Google Computer Science Research Mentorship Program <ul style="list-style-type: none">Mentored by Dr. Richard Szeliski on computer vision research and careers.	Sep 2022 - Feb 2023

SKILLS AND INTERESTS

- Computer Skills:* Python, Java, C, C++, MATLAB, HTML, React
- Language Skills:* English, Korean
- Relevant Coursework:* Prob Models of the Visual Cortex, Cogn Neuropsych of Visual Perception, Artificial Intelligence, ML: Interpretable ML Design

PUBLICATIONS

Pal, N., **Lee, S.**, & Johnson, T. T. (2023). "Benchmark: Formal verification of semantic segmentation neural networks", *Bridging the Gap Between AI and Reality*, 311–330. doi:10.1007/978-3-031-46002-9_20

PRESENTATIONS

Lee, Seojin (2024) "Effects of locomotion on neuronal activity in mouse visual cortex: Analysis by depths and cell types", *Day of Undergraduate Research in Engineering, Arts, Medicine, and the Sciences (DREAMS)*, Johns Hopkins University, Baltimore, MD [presentation link](#)