Jin-seo Kim

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Education

University of Pennsylvania August 2018 - Present
College of Arts and Sciences *Philadelphia, PA*

- Candidate for Bachelor of Arts in Cognitive Science and Computer Science
- Cumulative GPA: 3.96/4.0; Dean's List 2018-19, 2021-22

Research Interests

Cognitive and Mental health, Dementia, Depression, Early Detection and Intervention, Mobile and Wearable Devices, Longitudinal Health Data Analytics, Machine Learning, Lifetime Care and Healthy Aging

Honors and Awards

Kwanjeong Educational Foundation August 2018 - Present
STEM Scholarship Recipient *Seoul, South Korea*

- One of the 10 undergraduate students awarded for excellence in academics and extracurriculars
- Receiving merit-based scholarship of $60,000 annually until graduation (Expected May 2024)

Research Experience

Department of Linguistics, University of Pennsylvania November 2022 – Present
Undergraduate Research Assistant *Philadelphia, PA*

- Advisor: Professor Sunghye Cho
- Constructed transcripts of speech data derived from ∼150 Korean patients with Alzheimer's and Parkinson's disease
- Performed statistical analysis to extract linguistic features that can distinguish between Alzheimer's patients and healthy individuals
- Established Korean word frequency norms derived from a gender and age-balanced free speech corpus

Advanced Cardiovascular Imaging Lab, University of Pennsylvania June 2022 – November 2022
Undergraduate Research Assistant *Philadelphia, PA*

- Advisor: Professor Walter R. Witschey
- Researched methods to increase efficiency in pinpointing relevant image categories within a large-scale cardiac Magnetic Resonance Imaging database
- Designed a PyTorch-based machine learning pipeline that automatically classifies cardiac Magnetic Resonance images, organizing them by heart orientation and contrast agent type

Shen Lab, University of Pennsylvania November 2021 – May 2022
Undergraduate Student *Philadelphia, PA*

- Advisor: Professor Li Shen
- Preprocessed Alzheimer's patients' anatomical MRI and FDG-PET images using Clinica and Fastsurfer

Teaching & Professional Experience

Department of Computer Science, University of Pennsylvania August 2023 - Present
Teaching Assistant *Philadelphia, PA*

- Mentored students taking *CIS-5200: Machine Learning* and *NETS-1120: Networked Life* courses
- Graded homeworks and exams for classes ranging from 50 to 200 students
- Conducted weekly in-person office hours and led exam review sessions
- Crafted homework and exam questions for the *NETS-1120: Networked Life* course

InterPrep SAT Academy Summer 2019; Summer 2021
Full-time Instructor *Seoul, South Korea*

- Taught SAT, ACT, AP Computer Science, Statistics, and Calculus to a class of 20+ students
- Advised students on essay writing and college application

Logistics Command, Republic of Korea Air Force August 2019 - May 2021
Military Interpreter (SSgt) *Daegu, South Korea*

- Translated technical orders for the overhaul and maintenance of E-737 electronic warfare aircraft
- Provided simultaneous interpretation from and into Korean for field grade officers and Boeing engineers

Poster Presentations

"Automated analysis of letter fluency data produced by Korean and American patients with Alzheimer's Disease and Mild Cognitive Impairment," *Alzheimer's Association International Conference.* Amsterdam RAI, Amsterdam, Noord Holland, July 2023.

"Fully Automated Curation of Multicenter CMR Images in Pediatric and Adult Patients using Deep Learning," *Penn-Stanford CVI Symposium.* University of Pennsylvania, Philadelphia, PA, October 2022.

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL, LaTeX
Software & Tools: PyTorch, Pandas, Linux, Unix, Excel, Git, HTML, CSS

Languages

Korean (native proficiency)
English (advanced proficiency)
Japanese (advanced proficiency)
Spanish (intermediate proficiency)

Relevant Courseworks

Computer Science: Machine Learning, Computational Linguistics, Data Structures and Algorithms
Math and Statistics: Linear Algebra, Multivariable Calculus, Probability Theory
Cognitive Science: Big Data, Memory and the Human Brain, Cognitive Neuroscience, Neurolinguistics

References

Dr. Sunghye Cho, Assistant Research Professor of Linguistics
Linguistic Data Consortium
University of Pennsylvania
csunghye@ldc.upenn.edu

Dr. Walter R. Witschey, Associate Professor of Radiology
Department of Radiology, Perelman School of Medicine
University of Pennsylvania
+1 215-662-2310, witschey@pennmedicine.upenn.edu

Dr. Duncan Watts, Stevens University Professor
Department of Computer and Information Science
University of Pennsylvania
djwatts@seas.upenn.edu

Dr. Marissa King, Alice Y. Hung President's Distinguished Professor
Department of Health Care Management
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Dr. Russell Epstein, Professor of Psychology
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Dr. Min Seok Baek, Assistant Professor of Neurology
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