Ho Joong **Kim**

E-mail: woid1221@gmail.com Phone: 412-773-2191 Location: Pittsburgh, Pennsylvania

Education

Carnegie Mellon University, Mellon College of Science, Pittsburgh PA

Bachelor of Science | Mathematics | Computational and Applied Concentration | Expected May 2021

Carnegie Mellon University, School of Computer Science, Pittsburgh PA

Minor | Computer Science | Expected May 2021

Skills

Programming: C, Python

Language:

- Korean - Native Language
- English - Full Professional Proficiency (ILR scale)
- Japanese - Professional Working Proficiency (ILR scale)

Software: R, Matlab

Work Experience

Teaching Assistant

Carnegie Mellon University | JAN 2020 – MAY 2020 | Pittsburgh, Pennsylvania

- 21-122 Integration and Approximation. Taught calculus, integration techniques, numerical methods to approximate solutions. Held recitations of 20 students and recorded online virtual lectures and course notes.

R.O.K Military Interpreter

R.O.K Army | JUNE 2016 – MARCH 2018 | Daegu, Republic of Korea

- Served in the R.O.K Army as a Military Interpreter for 21 months, working in Second Operational Command (2OC) Logistics Division, regularly conducting translation and interpretation of military documents.
- Participated in annual R.O.K/US Combined Forces Military Exercise, including KR/FE & UFG, working closely with US Forces.
- Served as a squad leader, leading 11 fellow squad members to regular field training military exercise.

Projects & Research

Numerical Analysis of Gerrymandering via Markov Chain

Carnegie Mellon University | Summer Undergraduate Research Apprenticeship

- Analyzed the Gerrymandering on legislative district of Seoul using Dr. Wesley Pegden's Markov Chain Random Walk model program. Used Polyspace to gain map data of the district and calculated each districts' closeness with others. Ran the program to find evident result of Gerrymandering.

Basketball Playbook

Carnegie Mellon University | Programming | Final Project

- Created a basketball playbook program by Python that lets the user design their own basketball plays and simulate them in order after recording each move.