

# Kyung Myung Ko

## [US Permanent Resident]

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### EDUCATION

#### University of Washington

Sep 2025 - Jun 2027

Master of Science in Electrical and Computer Engineering

#### Purdue University

Expected May 2025

Bachelor of Science in Computer Science and Artificial Intelligence

- Computer Vision with Deep Learning, Natural Language Processing, Signals and Systems, Security Analytics, Intro to Robotics, Data Mining & Machine Learning, Statistical Methods

### EXPERIENCE

#### Research Intern, National Institute of Astrophysics, Optics and Electronics, Mexico

Jun 2024 - Aug 2024

Advisor: Dr. Tamar Solorio, Dr. Manuel Montes-y-Gómez

- Developed a speech and text cross-modal interaction module for classification, utilizing openSMILE and SONAR.
- Replicated and evaluated the baseline work on the multilingual & multimodal hate speech detection task.
- Attended NAACL 2024 conference, engaged in oral, poster, and workshop sessions.

#### Research Assistant, Purdue University, West Lafayette IN

May 2023 - Oct 2023

Advisor: Dr. James Davis

- Developed scripts to aggregate PGP signatures on Maven Central repository and analyzed their qualities.
- Contributed to the experimental design section of paper, published to IEEE S&P'24.

#### Data Processing Manager, Republic of Korea Army, South Korea

Sep 2021 - Mar 2023

- Operated and ensured the security of the transmitted data from the Army Tactical Command Information System.
- Tracked IP addresses of operational machines and compiled weekly reports of their privacy status.
- Managed networked surveillance cameras to ensure reliable streaming 24/7.

#### Research Intern, Northwestern University, Evanston IL

Jun 2021 - Aug 2021

Advisor: Dr. Marcelo Worsley

- Designed and collected EEG dataset, extracted features to train classification models via GRU, KNN, XGBoost.
- Converted real-time EEG data to player movement in the video game Minecraft, submitted to EAAI-24.

#### Caterpillar Corporate Partner Researcher, Purdue University, West Lafayette IN

Aug 2020 - May 2021

Advisor: Sridhar Ramaswamy

- Replicated a vanilla GAN model and fine-tuned it to perform regression on the multivariate time series data.
- Applied adversarial training algorithm, evaluated the performance with L1 & L2 loss, and presented a poster.

### PUBLICATION/PREPRINT

#### \* Signing in Four Public Software Package Registries: Quantity, Quality, and Influencing Factors

Taylor R Schorlemmer, Kelechi G Kalu, Luke Chigges, **Kyung Myung Ko**, Eman Abdul-Muhd Abu Isghair, Saurabh Baghi, Santiago Torres-Arias, James C Davis

*Proceedings of the 45th IEEE Symposium on Security and Privacy (S&P) 2024.*

#### \* Increasing Accessibility for Game-based Learning Experiences: Developing Brain Computer Interface Controls for Minecraft

**Andy Ko**, Vishesh Kumar, Marcelo Worsley

*Preprint 2024.*

### TEACHING ASSISTANT & SERVICES

#### Teaching

*Data Structures And Algorithms For DS/AI SP25*, Purdue University

*Problem Solving And Object-Oriented Programming SP25, SP24, FA23*, Purdue University

#### Service

*Purdue Korean Association Recruiting Manager 2023-2024*, Purdue University

*Data Processing Manager 2021-2023*, Republic of Korea Army

*Hello World Hackathon Mentor 2020*, Purdue University

*Volunteer Assistant Teacher 2015-2016*, Korean Culture & Language School of Oklahoma

### HONORS/AWARDS & SKILLS

#### Honors

*CS Department Outstanding Student in AI 2024*, Purdue University

*Dean's List 2019, 2020, 2021, 2023, 2024*, Purdue University

*Excellence in the Annual Headquarters Security Audit 2022*, Republic of Korea Army

*Academic Excellence in Telecommunications Military Training School 2021*, Republic of Korea Army

*Austin Coding Academy Scholarship 2018*, Austin Coding Academy

*Asia Society of Oklahoma Scholarship 2016*, Asia Society of Oklahoma

*Excellence in Junior Leadership Award 2016*, The National Association for Korean Schools

#### Skills

Python, Java, Bash, C, C#, JavaScript, HTML/CSS