

**Kyung Myung Ko**  
**[US Permanent Resident]**

[ko112@purdue.edu](mailto:ko112@purdue.edu) | [LinkedIn](#) | [Github](#) | [Website](#)

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 multimodal text and speech interaction module for classification, utilized 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

- Addressed the gap in understanding factors that influence signing adoption to ensure reliability of software packages.
- Developed scripts to aggregate PGP signatures on Maven Central repository and analyzed their qualities ([Code](#)).
- Contributed to the experimental design section of paper and 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 the networked surveillance cameras around the unit and ensured their reliable streaming 24/7.

**Research Intern, Northwestern University, Remote**

Jun 2021 - Aug 2021

Advisor: Dr. Marcelo Worsley

- Addressed the challenge of learning experiences for youth with mobility disability by enabling game-based learning.
- Designed and collected EEG dataset, extracted features to train classification models via GRU, KNN, XGBoost ([Code](#)).
- Developed a pipeline for real-time EEG data to player movement in the video game Minecraft, submitted to EAAI-24.

**Caterpillar Corporate Partner Researcher, The Data Mine at Purdue, West Lafayette IN**

Aug 2020 - May 2021

Advisor: Sridhar Ramaswamy

- Addressed the missing data problem of the mining truck through time-series data imputation ([Poster](#)).
- Utilized a vanilla GAN model and applied adversarial training algorithm to perform regression on the multivariate time series data, evaluated the performance with L1 & L2 loss ([Code](#)).

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

*Previously submitted to EAAI-24*

\* Evaluating Video Frame Interpolation and Audio Guidance Models With Distanced Frame Inputs

**Kyung Myung Ko**

*Course Project Report, 2024*

\* Multimodal Hate Speech Detection via Acoustic Textual Neural Transformer

**Kyung Myung Ko**, Manuel Montes-y-Gómez, Tamar Solorio

*Internship Report, 2024*

\* Audio-Visual Agreement for Audio-Visual Question Answering

**Kyung Myung Ko**

*Course Project Report, 2024*

## TEACHING ASSISTANT & SERVICES

---

- Teaching**     *Data Structures And Algorithms For DS/AI SP25*, Purdue University
- Established grading rubric for homework assignments on Gradescope.
  - Performed testing on the projects in Vocareum to ensure appropriateness.
  - Held weekly office hours and answered EdStem questions to assist students in the coursework.
  - Participated in weekly instructor meetings to address students' concerns and proposed solutions to mitigate with the instructor team.
- Problem Solving And Object-Oriented Programming SP25, SP24, FA23*, Purdue University
- Led laboratory sessions and assisted students to accomplish the weekly assignments.
  - Held weekly office hours to assist introductory student in CS/DS/AI majors in the curriculum.
- Service**     *Purdue Korean Association Recruiting Manager 2023-2024*, Purdue University
- Bridged the connection between Korean companies and the students at Purdue by managing the visitation from the corporations, publishing email announcements, and editing posts on the website.
  - Assisted planning and setting up cultural events and ceremonies for students at Purdue.
- Hello World Hackathon Mentor 2020*, Purdue University
- Assisted the participants in the annual freshmen 24-hour hackathon event by answering questions and providing suggestions to development of ideas, ranked as the #1 mentor to answer the most questions.
- Volunteer Assistant Teacher 2015-2016*, Korean Culture & Language School of Oklahoma
- Assisted in logistics and bridged communication between the students and the teachers in Korean language teaching and cultural activities.

## 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