Jiwon Chung

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🌐 **Official academic website** | in **LinkedIn** | ⓘD **ORCID** | 🅂 **Google Scholar**
ℝᴳ **ResearchGate** | ◗ **Web of Science** | Ⓐ **Academia.edu**

FORMAL EDUCATION

Korea University [Seoul, Republic of Korea]

Bachelor of Arts: German Language and Literature, College of Liberal Arts Aug. 2022

Master of Engineering: Information Security, School of Cybersecurity Feb. 2026
Master's Thesis:
"Credit Card Fraud Detection: An Improved Strategy for High Recall Using KNN, LDA, and Linear Regression"
(UCI: I804:11009-000000306194)

RESEARCH INTERESTS

- Human-Centered AI and health data privacy, including adpative consent and privacy-aware interfaces
- How people understand, trust, and use AI systems in medical settings across cultures
- Creating tools that reduce cognitive overload and serve the public by bridging research and industry

PUBLICATIONS

Journals [First Author]

Chung, J., & Kwon, H. (2025). Privacy fatigue and its effects on ChatGPT acceptance among undergraduate students: is privacy dead? *Education and Information Technologies, 30*(9), 12321–12343.
https://doi.org/10.1007/s10639-024-13198-6

  - This research explored how privacy fatigue influences undergraduate students' perceptions and adoption [First Author]
    of ChatGPT. It was found that reduced privacy concerns boost usage despite potential risks.

Chung, J., & Lee, K. (2023). Credit Card Fraud Detection: An Improved Strategy for High Recall Using KNN, LDA, and Linear Regression. *Sensors, 23*(18), 7788.
https://doi.org/10.3390/s23187788

  - This article proposes a robust multimodel strategy that combines KNN, LDA, and linear regression, which significantly improves fraud detection recall rates compared to traditional single-model approaches.

Posters [First Author]

Chung, J., & Kwon, H. (2025, October). Privacy Fatigue and Its Effects on ChatGPT Acceptance Among Undergraduate Students: Is Privacy Dead? Encore Poster Presentation at the 1st Workshop on Human-Centered AI Privacy and Security (HAIPS), co-located with ACM CCS 2025, Taipei, Taiwan.
Originally published in *Education and Information Technologies* (2025)

  - This encore poster revisited prior findings on how privacy fatigue influences ChatGPT acceptance among undergraduates, aiming to foster a dialogue on human-centered AI privacy and security. Beyond the formal presentation, the workshop provided a valuable opportunity for engaging discussions with attendees, including the organizers.

PROFESSIONAL AND ACADEMIC SERVICE

Reviewer

Springer Nature *The Journal of Supercomputing* (SCI Journal)   2025 - Present

Springer Nature *Education and Information Technologies* (SSCI Journal)   2024 - Present

RESEARCH EXPERIENCE

Risk Management Lab, Korea University   Mar. 2023 - Feb. 2026

PI: Prof. Kyungho Lee

Graduate Student Researcher

Microsoft Korea Inc., Republic of Korea   July 2023 - Sep. 2023

Project Title: "Debate on Improving Network Separation Systems in the Financial Sector"

Purpose: To develop proposals for enhancing the financial sector's network separation policies to strengthen cybersecurity

- Conducted in-depth discussions with academics, chief privacy officers, and government representatives
- Planned and organized seminars at the request of Microsoft Korea, focusing on cybersecurity policies in the financial industry
- Coordinated and facilitated meetings between financial authorities and company representatives to propose and refine network separation policy enhancements

Microsoft Korea Inc., Republic of Korea   Feb. 2023 - June 2023

Project Title: "Cyber Resilience Policy and Technology Trends in ASEAN and Oceania"

Purpose: To investigate cybersecurity resilience policies and technology trends in ASEAN and Oceania to inform political projects

- Conducted extensive consultations and solicited contributions from academic and industry experts across ASEAN and Oceania
- Used Overleaf to edit and compile papers into a professional brochure
- Published the final edited volume highlighting regional cybersecurity policies and technological advancements

The Asia Business Daily Co., Ltd., Republic of Korea   Dec. 2022 - June 2023

Project Title: "Development of a Program for Detecting Manipulation and Fraud in Online Shops"

Purpose: To build a data-driven tool for detecting fraudulent activities on e-commerce platforms

- Managed this project as an apprentice, implementing software development and cybersecurity principles to address practical online retail challenges
- Developed and implemented Python-based web crawlers in Jupyter Lab to gather consumer behavior data from e-commerce websites
- Applied natural language processing to detect suspicious review patterns

Undergraduate Research Assistant

Institute for Culture in German-Speaking Countries Korea University, Republic of Korea   Jan. 2019 - Jan. 2020

PI: Prof. Jeong-Rin Lee

Project Title: "Transcription and Study of German Records on Early Joseon Korea"

Purpose: To support historical documentation and cross-cultural research

- Transcribed original German-language historical records written by visitors to Korea during the early Joseon Dynasty
- Supported academic research by organizing archives and translating materials between Korean and German for cultural studies

SCHOLARSHIPS AND AWARDS

Research Assistant (B) Scholarship ($5,742)   Spring 2023 - Spring 2024
Department of Information Security
School of Cybersecurity, Korea University

BK21 FOUR Research Scholarship ($10,017)   Spring 2023 - Fall 2023
Department of Information Security
School of Cybersecurity, Korea University

Alumni Association Special Scholarship ($1,704)   Spring 2023
Korea University

Veritas Program Scholarship ($1,021)   Spring 2019 - Spring 2020
Office of Development & External Affairs, Korea University

Award: Chief of Staff Level Individual Commendation   Apr. 2018
Republic of Korea Army
(Recognized for outstanding achievement in March for leading the Soldier's Vision Design Plan; selected as the sole
recipient for the month in the Korea Army; featured in a special interview by the National Defense Daily)

Award: Division Commander Level Individual Commendation   June 2017
Republic of Korea Army
(Recognized for outstanding performance in Early Warning Receiver Group Training for Q2 2017)

The Welfare Section Scholarship ($682)   Fall 2015
Department of Health and Welfare
Korea University

TEACHING AND WORKING EXPERIENCE

Cybersecurity Policy Manager, Information Security Team [Full-time]

SentBe Inc., Republic of Korea   July 2025 - Present
- [Regulatory & Partner Audit Readiness]
  - Coordinated documentation and evidence preparation for Philippines GCash (Lite/Full) due diligence
    audits across HR, third-party management, customer support, and security operations.
  - Prepared audit materials for Lotte Shopping's e-commerce subcontractor inspection, including the
    Personal Data Internal Management Plan, Data Masking Standards, and Personal Data Handler
    Records.

- [Certification Program Management]
  - Managed ISO 27001/27701 surveillance audits by updating ISMS documentation, maintaining control
    evidence, and addressing compliance gaps against FSS guidelines and fintech standards.
  - Standardized ISMS-P controls, including physical security measures and media destruction workflows
    with full traceability.

- [Policy Design & Governance]
  - Drafted and updated internal policies in line with domestic and international regulations.
  - Maintained structured documentation hierarchy and approval workflows.
  - Aligned IS Infrastructure policies with Legal & Compliance standards and overhauled the privacy policy
    to clarify legal basis, consent logic, and data scope.

- [Security Awareness & Training]
  - Led company-wide security awareness training (English) covering privacy obligations, incident
    response, GenAI threats, and secure data handling.
  - Developed phishing simulations using GoPhish, including quishing and MFA-bypass scenarios.

- [Data Protection & Privacy Operations]
- Mapped personal data flows for the SentBe mobile application to establish lifecycle traceability for audits and engineering decisions.
- Strengthened physical access controls in the Customer Experience (CX) zone based on ISO audit feedback.

Teaching Assistant [Full-time]

Course: Risk Management (English)
(SMRT33400* & SCS70300)**

Fall 2023

PI: Prof. Kyungho Lee
Division of Smart Security (Undergraduate)* & Department of Information Security (Graduate)**
School of Cybersecurity, Korea University

Market Data Analyst [Intern]

ConnexioH Inc., Republic of Korea

July 2023 - Aug. 2023

- Analyzed big data using Python and visualized it with Matplotlib, Seaborn, and Plotly
- Managed and maintained data in ClickHouse database using SQL queries, achieving significant user interaction rates
- Processed and manipulated JSON data structures using SQL queries
- Analyzed and visualized consumer data from online shopping malls to extract business insights

Big Data Driven AI Service Developing Bootcamp [Apprentice]

The Asia Business Daily Co., Ltd., Republic of Korea

Dec. 2022 - Jun. 2023

- Participated in a big data-driven artificial intelligence service-developing bootcamp
- Led a project for detecting manipulative activities in online shops, leveraging practical experience in software security and cybersecurity
- Processed and manipulated JSON data structures using SQL queries
- Developed automated Python crawlers in JupyterLab to collect and store online shop metrics
- Analyzed manipulative reviews using natural language processing
- Optimized AdaBoost to improve prediction accuracy

Monitoring Team for Preventing Illegal Distribution of Personal Information [Intern]

Korea Internet & Security Agency (KISA), Republic of Korea

Feb. 2022 - Mar. 2022

- Tracked and identified personal data trafficking activities on the dark web and Twitter
- Stored data in SQLite and reported them to the KISA
- Achieved third highest detection rate among all interns for flagging illegal personal data trading posts
- Discovered more than 100 daily listings of personal data for sale, including extensive trafficking of South Korean passport numbers and email addresses on dark web marketplaces

Undergraduate Research Assistant [Intern]

Institute for Culture in German-Speaking Countries at Korea University, Republic of Korea

Jan. 2019 - Jan. 2020

- Transcribed German records from the opening era of the Joseon Dynasty

Sergeant [Full-time]

Republic of Korea (ROK) Army, Republic of Korea

Mar. 2017 - Dec. 2018

- Honorably discharged as a sergeant from the ROK Army and received the Excellence in Soldier Career Development Planning award(Selected as the sole recipient for the month in the Korea Army; featured in a special interview by the National Defense Daily)

EXTRACURRICULAR ACTIVITIES

Member

Mensa International Ltd., United Kingdom; International High IQ Society

Sep. 2015 - Present

- As a guest member of the Düsseldorf, Germany chapter (July-Nov. 2024), I participated in cultural exchange and diversity discussions via regular Stammtisch gatherings. Through these meetings, I established lasting international connections with members from diverse backgrounds.

Student Ambassador

KUP'C, Republic of Korea; Student Donation Messenger at Korea University   Mar. 2019 - Sep. 2020

- I promoted donation culture at Korea University via targeted campaigns and by creating promotional
  content to enhance the university's internal and external visibility. I also supported various university events
  by managing protocols, planning newsletters, conducting interviews, and writing articles.

Volunteer

International Workcamp Organization, Republic of Korea   Jan. 2020 - Feb. 2020
(Member of UNESCO's Coordinating Committee for International Voluntary Service)

Project Title: One Earth – Aurora Hunting and Global Warming

Location: Iceland

Commitment: 96 hours

Member

Deadlines, Baseball Club at Korea University   Mar. 2015 - Mar. 2017

Position: Second baseman

ADDITIONAL SKILLS

- Qualifications in Cybersecurity and System Administration: Certified Privacy Protection General (CPPG),
  and Linux Master Level 2
- Software: SmartPLS, ClickHouse, SQLite, JupyterLab, and Visual Studio
- Programming languages: Python, SQL, and LaTeX
- Korean (native), English (TOEFL Internet-Based Test: 105; Reading: 26, Listening: 26, Speaking: 25,
  Writing: 28), and German (Goethe Zertifikat Deutsch B2, Telc C1 Hochschule)

SOCIETY MEMBERSHIPS

- Institute of Electrical and Electronics Engineers (IEEE) – Student Membership
- Association for Computing Machinery (ACM) – Student Membership
- International Association of Privacy Professionals (IAPP) – Annual Student Membership
- Mensa International / Mensa Korea – Lifetime Member