

Suyeong Park

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CAREER INTEREST

I build **Trustworthy AI** systems — from research in causal inference and privacy-preserving AI to the production infrastructure that runs it on Homomorphic Encryption. I work across the full stack — ML, research, backend, and infrastructure — so the systems I design are the ones I also ship and operate.

EDUCATION

Ulsan National Institute of Science and Technology (UNIST)

Ulsan, Korea

Master of Science in Artificial Intelligence

Aug. 2020 – Aug. 2022

Advisor: Prof. Kwang In Kim and Prof. Namhoon Lee

Relevant Coursework: Causal Learning & Explainable AI, Reinforcement Learning, Advanced Machine Learning Topics

University of Seoul

Seoul, Korea

Bachelor of Science in Statistics and Data Science

Mar. 2015 – Feb. 2020

Relevant Coursework: Bayesian Statistics, Machine Learning, Deep Learning, Time Series Analysis, Multivariate Statistics, Statistical Computing, Linear Algebra, Probability Theory, Mathematical Statistics

EXPERIENCE

AI Research Scientist, [CryptoLab](#)

Sep. 2023 - Present

Privacy-Preserving Machine Learning by Homomorphic Encryption

Seoul, Korea

Research Intern, [Lunit](#)

Jan. 2023 - Aug. 2023

Bayesian Optimization for AutoML

Seoul, Korea

Visiting Researcher, *CausalML Lab@Purdue University*

Jul. 2022 - Aug. 2022

Bayesian Causal Discovery

West Lafayette, US

Research Assistant, *MLV Lab@UNIST*

Aug. 2020 – Aug. 2022

Bayesian Active Learning, Federated learning, Transfer learning, Image Attribute Estimation

Ulsan, Korea

Data Analyst and Engineer Intern, *Seoul Big Data Campus*

Mar. 2020 - Jun. 2020

Citizen Movement and Consumption Behaviour analysis around Seoul city

Seoul, Korea

Data Analyst Intern, *FSC*

Sep. 2019 - Feb. 2020

Data analysis with financial public data

Seoul, Korea

PUBLICATION

Multi-Center EVSS: Patient-Centric Privacy-Preserving Encrypted Vector Similarity Search

G. Lee, S. Park, S. Kim, RECOMB-P&E, 2025

Privacy-Preserving Mortality Predictive Model through HE-Enhanced Federated Learning

G. Lee, S. Park, S. Eo, S. Kim, S. Lee, J. Seo, KOSMI, 2024

Active Deep Learning Guided by Efficient Gaussian Process Surrogates

[\[paper\]](#)

Y. Ahn, S. Park*, K. Kim., AAAI, 2024*

Bayesian Optimization Meets Self-Distillation

[\[paper\]](#)

H. Lee, H. Song, H. Lee, G. Lee, S. Park, D. Yoo., ICCV, 2023

Active Client Selection for Communication-efficient Federated Learning

[\[paper\]](#)

S. Park, Master's Thesis, 2022

PROJECTS

HEracles: Database Plug-In with Homomorphic Encryption

Jul. 2026 – Present

Built the FHE encrypted-search extension for Oracle DB

Encrypted BM25 (Full-Text Search)

Jul. 2026 – Present

Built the new algorithms of BM25 with encryption

EFR: Encrypted Face Recognition

Apr. 2026 – Jun. 2026

Built the encrypted face recognition system on enVector

enVector: Encrypted Vector Search Engine

Jun. 2025 – Jul. 2026

Built the distributed backend for a FHE vector search engine in Go/gRPC

Encrypted Retrieval-Augmented Generation <i>Built the encrypted RAG system on enVector</i>	Aug. 2024 – Aug. 2025
Quantization/Distillation for Encrypted AI Models <i>QAT for the encrypted LLM and knowledge distillation for encrypted CNN</i>	Oct. 2023 – Mar. 2024
Bayesian Optimization for Hyper-Parameter Optimization in AutoML	Jan. 2023 – Aug. 2023
Visual Common Sense Through Self-supervised Learning for Restoration of Invisible Parts in Image	April. 2021 – Aug. 2022
Causal Learning with Artificial Intelligence for genome dataset	Mar. 2021 – Dec. 2021
Citizen Movement and Consumption Behaviour analysis around Seoul city	Apr. 2020 – Jun. 2020
Data analysis with financial public data	Jan. 2020 – Feb. 2020

TECHNICAL SKILLS

Languages: Python, C, C++, Go, CUDA C, PL/SQL, R

ML & Data: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, OpenMMLab, NumPy, pandas, SciPy, statsmodels, Matplotlib, wandb

Backend & Systems: Go (MSA), FastAPI, gRPC/Protocol Buffers, REST API, OpenAPI, JWT, Kafka

Infrastructure & DevOps: GitHub Actions, GitLab CI, Terraform, Helm, Docker, Kubernetes, AWS, GCP, OCI, Git, OpenTelemetry, Jaeger (distributed tracing), HashiCorp Vault

Databases: Oracle (PL/SQL, ODCI, TDE), PostgreSQL

TALKS

Attacks of Embedding Vectors <i>KOSMI (The Korean Society of Medical Informatics)</i>	Nov. 2025 Incheon, Korea
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Last Updated: August 15, 2026