

SoYeon Ahn

AI Evaluator / Subject Matter Expert

United States | [LinkedIn](#) | [GitHub](#)

Technical evaluator designing frontier-model evaluations and scoring rubrics at Mercor Intelligence, with a PhD in Electrical and Computer Engineering and expertise in probabilistic modeling and computational biology.

EXPERIENCE

AI Evaluator / Subject Matter Expert Mercor Intelligence Design and validate multi-file data science evaluations for frontier AI models, developing input artifacts, reference answers, and weighted scoring rubrics. Analyze repeated model trajectories to identify systematic reasoning, visual-interpretation, and error-propagation failures. Design adversarial STEM benchmark problems to probe reasoning limits across six frontier models.	Feb 2026 — Jul 2026 <i>Remote</i>
Founder BlueDove Built and launched a generative-AI commerce MVP solo using React, Node.js, FastAPI, Docker, SQL, and AWS S3 for custom product design and ordering. Owned development and delivery end to end, fulfilling real customer orders concierge-style before winding down in July 2025.	Feb 2024 — Jul 2025 <i>Remote</i>
Project Manager H/A Studio Coordinated website projects across clients, developers, and designers. Translated founder requirements into actionable tasks and managed timelines and deliverables.	Oct 2022 — Jun 2023 <i>Remote</i>
Freelance Developer Self-Employed Designed and deployed a full-stack QR-code-based contactless ordering system for restaurants, handling both frontend and backend implementation.	Jan 2022 — Sep 2022 <i>Remote</i>
Postdoctoral Researcher University of Southern California Built automated Python/Snakemake pipelines integrating long- and short-read sequencing data, separating true variants from artifacts. Designed repeat-aware algorithms for de novo human centromere assembly from long-read data.	May 2018 — Sep 2020 <i>Los Angeles, CA</i>
Graduate Research Assistant The University of Texas at Austin Developed aBayesQR (Bayesian inference) and TenSQR (tensor factorization) methods for viral quasispecies reconstruction from NGS data. Developed a Sequential Monte Carlo algorithm for joint haplotype assembly and genotype calling, improving phasing accuracy and reducing runtime on large-scale HPC datasets.	Aug 2012 — May 2018 <i>Austin, TX</i>
System Engineer Hanwha Thales (formerly Samsung Thales) Developed and simulated radar signal-processing algorithms for long-range target detection.	Jan 2010 — Feb 2011 <i>South Korea</i>

EDUCATION

The University of Texas at Austin <i>Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering</i> Advisor: Prof. Haris Vikalo	Sep 2012 — Jun 2018
Korea Advanced Institute of Science and Technology <i>Master's Degree in Signal Processing(Detection and Estimation), Electrical Engineering</i> Advisor: Prof. Joohwan Chun	Sep 2008 — Jun 2010
Korea University <i>Bachelor's Degree in Electrical Engineering</i>	Sep 2003 — Jun 2008

CERTIFICATIONS

- aBayesQR: A Bayesian method for reconstruction of viral populations characterized by low diversity,
- Viral quasispecies reconstruction via tensor factorization with successive read removal,
- Joint haplotype assembly and genotype calling via sequential Monte Carlo algorithm,

SKILLS

Benchmark Design · Reinforcement Learning Human Feedback (RLHF) · AI Evaluation · Computational Workflows · Data Pipeline Development · Modeling and Simulation · Signal Processing · Algorithm Development · Statistical Modeling · Full-Stack Development · Generative AI · Data Science · Data Intelligence · Large Language Models (LLM) · React · Node.js · Matlab · Research · Machine Learning · Algorithms · R · Python · Task Design and Validation · Reference Answers · Rubric Design · Model Failure Analysis · Adversarial STEM Benchmarks · Data Quality Review · C/C++ · SQL · Git · Linux/Unix · HPC/Cluster Computing · Snakemake · FastAPI · Docker · AWS S3 · Bayesian Inference · Probabilistic Modeling · Sequential Monte Carlo · Tensor Factorization · Data Analysis · Computational Biology · NGS Data Analysis