

# KEVIN LEE

linkedin.com/in/percept-lee | US Citizen

## EDUCATION

### University of California, Los Angeles (UCLA)

Master of Science, **Aerospace Engineering** (AI/ML and Statistics Focus)

GPA: 3.7/4.0

Los Angeles, CA

Sep 2023 – Mar 2025

**Dean's List** of the SP24 quarter (**4.0 GPA** for all the 5 classes; the master graduation requirement is 9 classes)

### The Ohio State University (OSU)

Bachelor of Science, **Engineering Physics**, and **Astronomy and Astrophysics** Majors

GPA: 3.5/4.0

Columbus, OH

Aug 2017 – May 2021

**Aerospace Engineering** Concentration

**College of Engineering Scholarship Recipient; Dean's List** of the AU19 and SP20 semesters

## EXPERIENCE

### NASA Frontier Development Lab

Remote

*AI Research Scientist*

Jun 2025 – Now

Selected as one of the few 16 researchers worldwide for the highly competitive initiative for the most advanced AI applications for space.

- Developed the multi-agent orchestration system (with MCP) for scientific tasks and accepted into NeurIPS AI4Science.
- Designed, implemented, and evaluated advanced multi-agent architectures for scientific reasoning and mission planning.
- Spearheaded a systems-engineering-driven architecture for multi-agent self-improvement and resource allocation.
- Created NASA's heliophysics reasoning dataset and agentic benchmark and accepted into NeurIPS ML4PS.
- Collaborated across research teams; received **Collaborative Spirit Award** and **Unexpected Discovery Award** (rare dual honor).

### Mercor (Anthropic & Google contractors)

Remote

*Data Scientist and AI Model Trainer*

Jul 2025 – Oct 2025

Supported top AI labs through Mercor contract to train AI models with data science and expertists in aerospace systems.

- Collaborated with AI teams to ensure simulations reflect real-world physics, design constraints, data science, and regulatory standards.
- Delivered detailed technical insights and clear communication in an asynchronous environment to enhance SOTA AI models.

### NASA Jet Propulsion Laboratory

Pasadena, CA

*AI/ML Engineer and Scientific Programmer*

Jun 2018 – May 2023

Contributed to multiple advanced projects at NASA JPL, through expertise in aerospace engineering, machine learning, and systems design to support space missions, satellite data analysis, and mission-critical diagnostics. Collaborated with multidisciplinary teams to push the boundaries of applications in AI, data processing, and instrumentation engineering in the space environments.

- Developed ML models for spacecraft telemetry analysis, enabling robust mission-critical verification using MATLAB, Python, and R.
- Engineered firmware and electronic systems for spacecraft instrumentation, including circuit design, PCB layouts, and sensor integration, contributing to Mars and Europa chemical analyzer missions (e.g., motor control, actuators, sensors).
- Published research on AI-driven (DL and RL) anomaly detection for satellite missions, improving data integrity in the data pipeline.
- Optimized data pipelines for NOAA ocean pressure gauge data to support long-term GRACE-FO satellite monitoring systems.

### Lockheed Martin

Palo Alto/Sunnyvale, CA

*Software Engineering, System Integration & Test Engineering Intern*

Jun 2024 – Sep 2024

Contributed to cutting-edge advancements at Lockheed Martin's most advanced space development lab, Advanced Technology Center.

- Optimized image processing algorithms in C/C++ and MATLAB for NASA's IRIS and MUSE, improving processing speed by 80%.
- Enhanced NASA's core Flight System (cFS) code in C/C++ for NASA's MUSE, improving code stability through Fortify integration.
- Developed an interactive visualization tool using HTML and React.js to validate solar image processing and simulation outputs.
- Investigated systems engineering for integration and testing plans for flight systems, ensuring alignment with mission objectives.

### Harmonized Cryogenics Technology

Pasadena, CA

*Former Co-founder; Project Manager; Research & Development Engineer, and Systems Engineer*

Jan 2022 – Feb 2023

Co-founded and managed the next-gen cryogenic hardware design for quantum computing; collaborated with a NASA-JPL/Caltech scientist.

- Established policies, R&D workflows, and simulation and project management tooling for hardware and software development.
- Built MBSE architecture in SysML, authoring requirements, block, and activity diagrams on system, thermal, and structural models.
- Developed and validated Python simulations for heat transfer and fluid dynamics to characterize cryogenic enclosures.
- Designed and modeled cryogenic enclosures for quantum computers in SolidWorks on structural integrity and thermal performance.

### Northrop Grumman

Beavercreek, OH

*Software Engineering Intern*

Jun 2021 – Sep 2021

Supported the Electronic Warfare Integrated Reprogramming Database project for the National Air and Space Intelligence Center (NASIC).

- Worked in Scrum using Jira/Confluence; demoed increments to NASIC stakeholders and incorporated feedback into the backlog.
- Enhanced Java-based user interfaces and data platforms, improving responsiveness and usability.
- Refactored subcontractor-developed modules with limited documentation, stabilizing integrations and documenting fixes.

## PUBLICATION

- **An Agentic Orchestration System for Heliophysics Tasks**, NeurIPS AI4Science, 2025
- **Reasoning With a Star: A Heliophysics Dataset and Benchmark for Agentic Scientific Reasoning**, NeurIPS ML4PS, 2025
- **Iterative Encoding-Decoding VAEs Anomaly Detection in NOAA's DART Time Series: A Machine Learning Approach for Enhancing Data Integrity for NASA's GRACE-FO Verification and Validation**, NASA-JPL, arXiv Machine Learning, 2024