

# KEVIN LEE

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

## EDUCATION

<b>University of California, Los Angeles (UCLA)</b> Master of Science, Aerospace Engineering (AI/ML and Statistics Focus) <b>Dean's List</b> of the SP24 quarter ( <b>4.0 GPA</b> for all the 5 classes; the master graduation requirement is 9 classes)	Los Angeles, CA GPA: 3.7/4.0 Sep 2023 – Mar 2025
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<b>The Ohio State University (OSU)</b> Bachelor of Science, Engineering Physics, and Astronomy and Astrophysics Majors Aerospace Engineering Concentration <b>College of Engineering Scholarship Recipient; Dean's List</b> of the AU19 and SP20 semesters	Columbus, OH GPA: 3.5/4.0 Aug 2017 – May 2021
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## EXPERIENCE

<b>NASA Frontier Development Lab</b> <i>AI Research Scientist</i> Selected as one of the few 16 researchers worldwide for the highly competitive initiative for the most advanced AI applications for space. <ul style="list-style-type: none"><li>Developed the multi-agent orchestration system (with MCP) for scientific tasks and accepted into NeurIPS AI4Science.</li><li>Designed, implemented, and evaluated advanced multi-agent architectures for scientific reasoning and mission planning.</li><li>Spearheaded a systems-engineering–driven architecture for multi-agent self-improvement and resource allocation.</li><li>Created NASA's heliophysics reasoning dataset and agentic benchmark and accepted into NeurIPS ML4PS.</li><li>Collaborated across research teams; received <b>Collaborative Spirit Award</b> and <b>Unexpected Discovery Award</b> (rare dual honor).</li></ul>	Remote Jun 2025 – Now
<b>Mercor (Anthropic &amp; Google contractors)</b> <i>Data Scientist and AI Model Trainer</i> Supported top AI labs through Mercor contract to train AI models with data science and experts in aerospace systems. <ul style="list-style-type: none"><li>Collaborated with AI teams to ensure simulations reflect real-world physics, design constraints, data science, and regulatory standards.</li><li>Delivered detailed technical insights and clear communication in an asynchronous environment to enhance SOTA AI models.</li></ul>	Remote Jul 2025 – Oct 2025
<b>NASA Jet Propulsion Laboratory</b> <i>AI/ML Engineer and Scientific Programmer</i> 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. <ul style="list-style-type: none"><li>Developed ML models for spacecraft telemetry analysis, enabling robust mission-critical verification using MATLAB, Python, and R.</li><li>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).</li><li>Published research on AI-driven (DL and RL) anomaly detection for satellite missions, improving data integrity in the data pipeline.</li><li>Optimized data pipelines for NOAA ocean pressure gauge data to support long-term GRACE-FO satellite monitoring systems.</li></ul>	Pasadena, CA Jun 2018 – May 2023
<b>Lockheed Martin</b> <i>Software Engineering, System Integration &amp; Test Engineering Intern</i> Contributed to cutting-edge advancements at Lockheed Martin's most advanced space development lab, Advanced Technology Center. <ul style="list-style-type: none"><li>Optimized image processing algorithms in C/C++ and MATLAB for NASA's IRIS and MUSE, improving processing speed by 80%.</li><li>Enhanced NASA's core Flight System (cFS) code in C/C++ for NASA's MUSE, improving code stability through Fortify integration.</li><li>Developed an interactive visualization tool using HTML and React.js to validate solar image processing and simulation outputs.</li><li>Investigated systems engineering for integration and testing plans for flight systems, ensuring alignment with mission objectives.</li></ul>	Palo Alto/Sunnyvale, CA Jun 2024 – Sep 2024
<b>Harmonized Cryogenics Technology</b> <i>Former Co-founder, Project Manager, Research &amp; Development Engineer, and Systems Engineer</i> Co-founded and managed the next-gen cryogenic hardware design for quantum computing; collaborated with a NASA-JPL/Caltech scientist. <ul style="list-style-type: none"><li>Established policies, R&amp;D workflows, and simulation and project management tooling for hardware and software development.</li><li>Built MBSE architecture in SysML, authoring requirements, block, and activity diagrams on system, thermal, and structural models.</li><li>Developed and validated Python simulations for heat transfer and fluid dynamics to characterize cryogenic enclosures.</li><li>Designed and modeled cryogenic enclosures for quantum computers in SolidWorks on structural integrity and thermal performance.</li></ul>	Pasadena, CA Jan 2022 – Feb 2023
<b>Northrop Grumman</b> <i>Software Engineering Intern</i> Supported the Electronic Warfare Integrated Reprogramming Database project for the National Air and Space Intelligence Center (NASIC). <ul style="list-style-type: none"><li>Worked in Scrum using Jira/Confluence; demoed increments to NASIC stakeholders and incorporated feedback into the backlog.</li><li>Enhanced Java-based user interfaces and data platforms, improving responsiveness and usability.</li><li>Refactored subcontractor-developed modules with limited documentation, stabilizing integrations and documenting fixes.</li></ul>	Beavercreek, OH Jun 2021 – Sep 2021
<b>PUBLICATION</b> <ul style="list-style-type: none"><li>An Agentic Orchestration System for Heliophysics Tasks, NeurIPS AI4Science, 2025</li><li>Reasoning With a Star: A Heliophysics Dataset and Benchmark for Agentic Scientific Reasoning, NeurIPS ML4PS, 2025</li><li>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</li></ul>	