

Hyeonji Julia Lee

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EDUCATION

Bachelor of Science in Computer Science
Washington State University

Expected May 2026

RESEARCH INTERESTS

Human Information Behavior • AI in Information Literacy Education • Information Retrieval Systems • User-Centered Systems and Services

RESEARCH EXPERIENCE

Research Assistant Oct 2024 - present
Center for AI Research and Education (CAIRE), Washington State University

- ADAPT-AI (Technical Lead): Leading a developer team to build a Microsoft AI for Good-supported multi-agent assessment platform. Directing system architecture, full-stack API development, and Azure integration to support rural K–12 science teachers.
- AI Group Coordinator: Developing a full-stack, multi-agent system supported by Microsoft AI for Good to scaffold real-time scientific argumentation and promote equitable learning in middle school classrooms.
- Automated Assessment Research: Engineered an OpenAI-based pipeline for automated concept map evaluation. Validated AI scoring reliability against human rubrics using image preprocessing and voting-based data aggregation.

CONFERENCE PAPERS & PRESENTATIONS

[3] Midde, L., **Lee, H. J.**, Wang, Z., & Li, T. (2026). *Toward Development: From Customizing Classroom Assessments with ADAPT-AI to Further Supporting 3D Learning Progression*. Paper accepted to National Association of Research in Science Teaching (NARST). Seattle, WA.

[2] Jin, G., Li, T., **Lee, H. J.**, Xue, Y., He, P., Adesope, O. O., Dydasco, C. G., Sunday, O. J., & Nishida, K. (2026). *Using large language model to analyze chemistry undergraduate students' self-constructed concept maps*. Paper accepted to American Educational Research Association (AERA) Annual Meeting. Los Angeles, CA.

[1] **Lee, H. J.**, & Jung, Y. (2025). *Korean and Japanese Student Flows to the U.S. and International Research Collaboration Patterns*. Paper and oral presentation delivered at the 51st Japanese Modern Association of Korea (JMAK) International Conference. Osaka, Japan.

Under Review

[1] **Lee, H. J.**, Fox, J., Sherling, D., Liu, H., Kumar, P., & He, P. (2026). *The AI Group Coordinator: A Multi-Agent Teammate for Human-in-the-Loop Assessment and Collaborative Learning*. Paper submitted to the 27th International Conference on Artificial Intelligence in Education (AIED). Seoul, Republic of Korea.

WORKSHOP

[2] Li, T., Krajcik, J., Akgun, S., Midde, L., **Lee, H. J.**, & Wang, Z. (2025). *Designing 3D Assessments with Generative AI: A Hands-On Workshop for Elementary and Middle School Educators*. Full-day workshop accepted by the National Science Teacher Association (NSTA) Professional Learning Institute (PLI). Minneapolis, MN.

[1] He, P., Li, T., Midde, L., **Lee, H. J.**, & Wang, Z. (2025). *Designing 3D Assessments with Generative AI: A Hands-On Workshop for Elementary and Middle School Educators*. 4-hour workshop accepted by Washington Science Teacher Association (WSTA). Tacoma, WA.

PROFESSIONAL EXPERIENCE

Archival Digitization Assistant Mar 2025 - present
Manuscripts, Archives & Special Collections, Washington State University

- Digitize and catalog historical newspaper clippings (1910s–1930s) for the Kimble Project, creating precise metadata to enhance the preservation and accessibility of regional archival records.
- Facilitate researcher inquiries at the MASC front desk, providing seamless access to special collections and coordinating with specialized librarians for advanced research support.

Backend Developer May 2022 – June 2023
PCN, Seoul, Republic of Korea

- Integrated Support Platform Development: Engineered a comprehensive industry information management system using Java and MySQL, leading the project planning and front-to-back development to facilitate post-COVID industry recovery.
- Metaverse Management System Implementation: Architected and restructured a system utilizing PostgreSQL and open-source technologies, enabling administrators to seamlessly create and manage virtual metaverse spaces for hybrid exhibitions.

UNIVERSITY SERVICE

Chair, Undergraduate Student Director, Students Book Corporation Aug 2024 – present

- Presides over board meetings to define semester goals and cultivate strategic partnerships with campus organizations (ASWSU, GPSA) to align services with the student body's needs.
- Leads the end-to-end execution of campus-wide outreach initiatives as PR Committee Chair, while managing recruitment and providing mentorship through the Search Committee to ensure seamless leadership transitions.

Industry Mentor Coordinator, Society of Women Engineers Aug 2023 – present

- Large-Scale Event Coordination: Leading the recruitment and management of STEM and architecture student clubs for KSED, overseeing safety certifications, venue logistics, and real-time operations for pre-KSED and main event execution.
- Strategic Industry & Volunteer Leadership: Managing end-to-end professional outreach to recruit mentors and industry leaders, while spearheading registration and operational committees to ensure seamless event flow for EWI and KSED initiatives.

Mentorship Program (TMP, Voiland Peer) Aug 2023 – May 2025

- Peer Leadership & Academic Transition: Served as both a mentee and mentor within the Voiland Peer Network, providing tailored guidance to international, adult, and transfer students to ensure a successful transition to the university environment.

- Scholarship Recognition & Professional Growth: Selected as a recipient of the Boeing-sponsored TMP Mentee Scholarship, recognized for exceptional engagement and proactive professional development within the Team Mentoring Program.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, HTML/CSS, C++, C, C#

Backend: FastAPI, Django REST Framework, Spring Boot, Node.js, SQLAlchemy, Pydantic

Frontend: React, Vite, Tailwind CSS, Radix UI, Shadcn/UI, React Hook Form

AI & LLM: Azure OpenAI, Multi-agent Systems, PyTorch (CNN), NLP, LangChain

Cloud & DevOps: Azure (Container Apps, Static Web Apps), Docker, Nginx, GitHub Actions

Database: PostgreSQL, MySQL, MariaDB, MongoDB, Azure Blob Storage

CERTIFICATE

Fundamentals of Deep Learning, NVIDIA Deep Learning Institute

- Credential ID 1tO0Ys3ITkGJkXM3sgBKrQ

Generative AI for Educators & Teachers, Vanderbilt University

- Credential ID 86YD2I5K0VCN

NCS (National Competency Standards) based Training Course in Big Data Development Practice using JAVA & Python, Greenart

- Credential ID 2206-21-14

Microsoft Office Specialist Master Certification (MOS) 2016, Microsoft

- Credential ID STUT-uSw8

LANGUAGES

Korean: Fluent

English: Proficient

REFERENCES

Tingting Li, Assistant Professor (Co-Director, CAIRE Research Lab)

Dept of Teaching and Learning

Washington State University

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Peng He, Scholarly Assistant Professor – Career (Co-Director, CAIRE Research Lab)

Dept of Teaching and Learning

Washington State University

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Parteek Kumar, Scholarly Associate Professor – Career

School of Electrical Engineering and Computer Science

Washington State University

parteek.kumar@wsu.edu

Joleen Warner, Digital Projects Manager

Libraries - Manuscripts Archives and Special Collections

Last updated: 02/2026

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