Olivia Peiyu Wang

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EDUCATION

University of California, Santa Cruz, Baskin School of Engineering, Santa Cruz, CA, **GPA: 4.0/4.0**
Doctor of Philosophy in Computer Science   09/2023 - Present

George Washington University, School of Engineering and Applied Science, Washington, DC, **GPA: 3.9/4.0**
Master of Science in Data Analytics, Tracks: Systems Engineering & Computer Science   08/2018-05/2020

University of Delaware, Alfred Lerner Business College, Newark, DE, **GPA: 3.95/4.0**
Bachelor of Science in Management Information Systems, Minor: Computer Science   08/2016-05/2018

RESEARCH INTEREST

• **Human-Centered Explainable AI (XAI):** Transparent and Interpretable AI for Better Usability and More Trust
• **Faithful Neuro-symbolic (NeSy) Reasoning:** Neural Learning and Symbolic Reasoning for Faithful Reasoning
• **AI in High-Stakes Domains:** Particularly within the Legal and Regulatory domain

PUBLICATION

Follow My Lead: Logical Fallacy Classification with Knowledge-Augmented LLMs
• Accepted by The Twelfth Annual Conference on Advances in Cognitive Systems

RESEARCH PROJECT

Computational Social Science Project on Misinformation on Social Media   09/2019 - 09/2020
• Crawled and queried over 5GB of data from Twitter in JSON format and extracted over 180,000 unique users
  out of the datasets, then separated users into four categories based on criteria defined in previous research
• Extracted common words and topics from tweets with LDA topic modeling and Gensim Doc2Vec. Explored
  the difference in the proportions of malicious URLs and analyzed the intent of spreading misinformation

WORK EXPERIENCE

AI Engineer Intern, ProspectIntel, Remote   07/2025–09/2025
• Led the prompt development effort by incorporating prompting best practice and standardizing output
• Built Agents on GCP with ADK and MCP Toolbox and incorporate API, SQL query, and Google Search functions

Member of Technical Staff – Java Engineer, VMware, Palo Alto, CA   06/2021–12/2024
• Orchestrated and led the new L7 App ID project that brought in at least 5 million worth of contracts
• Participated in 2 organization-wide pattern changes and worked alongside staff engineers to modernize our
  code framework to facilitate the storage and readability of data using JAVA and Spring Framework
• Revamped and optimized the Firewall Exclude List code in JAVA and developed documentation for customers
• Wrote Python scripts to extract App IDs from protocol bundles in XML format and integrate automatically

Data Scientist Intern, Mid-Atlantic Permanente Medical Group, Rockville, MD   01/2020–07/2020
• Built a Natural Language Processing model from free text doctor notes to ICD-10 codes with SQL, Python,
  and Python Machine Learning packages, which yielded an average AUC of 0.95 on the testing set
• Refined the NLP model to diagnose diabetes from free-text doctor notes with an average AUC of 0.99