Evelyn Yee evelynyee.github.io

EDUCATION

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University of California, San Diego (UC San Diego) La Jolla, CA	September 2020 – June 2024
Bachelor of Science in Data Science, Minor in Linguistics	
Stanford University Palo Alto, CA Master of Science in Computer Science. Anticipated Graduation Ju	September 2024 – Present me 2026.
RESEARCH	
 Faithfulness in Chain of Thought Reasoning Laboratory for Emerging Intelligence. UC San Diego. La Jolla, CA Principal Investigators: Dr. Leon Bergen and Dr. Ramamohan Pa First author on this project, presented our work at the First eling. 	
• Designed and executed experiments, leveraging cognitive met- ness in LLM-generated reasoning. Findings demonstrated a clean and unfaithful behaviors.	
• Developed a taxonomy of LLM reasoning errors and recovery behaviors, enabling a previously unachievable level of detailed analysis.	
• Managed a team of annotators to apply this taxonomy for a formed statistical analysis to identify the significance and effe	с
 Robust Noisy Chain of Thought Laboratory for Emerging Intelligence. UC San Diego. La Jolla, CA Principal Investigators: Dr. Leon Bergen and Dr. Taylor Berg-Kir Co-led a team to improve the robustness of Large Language M environments, building on my previous findings about halluci Conducted literature reviews and integrated findings into pro 	fodel (LLM) reasoning in noisy nation behavior in reasoning.
 Conducted interature reviews and integrated intengs into pro Implemented and executed Python-based exploratory experience. LLMs to target the effect of text dropout in training on test- 	iments, fine-tuning pre-trained
 Cognitive Biases in Syntax Production June 2019 – September 2019 Language and Cognitive Neuroscience Lab. UW Madison. Madison, WI Principal Investigators: Dr. Maryellen Macdonald and Dr. Mark Seidenberg Assisted with the development of 4 experiments which drew connections between vision, language processing, and motor control systems in humans. 	
• Utilized natural language corpora to design experimental stimuli for an experiment measuring response time to nonstandard syntactic constructions	
• Created proof-of-concept experimental design demonstrations, using Python and Microsoft PowerPoint.	
• Performed data cleaning, annotation, and analysis using Micro speech processing software.	osoft Excel and Praat, an audio-

PUBLICATIONS

• Evelyn Yee, Alice Li, Chenyu Tang, Yeon Ho Jung, Ramamohan Paturi, and Leon Bergen. Dissociation of Faithful and Unfaithful Reasoning in LLMs. In First Conference on Language Modeling, 8 Oct. 2024. url: https://openreview.net/forum?id=IPZ28ZqD4I

PRESENTATIONS

- Evelyn Yee. Chain of Thought & Verbalized Machine Reasoning. University of California San Diego: Laboratory for Emerging Intelligence Reading Seminar, 4 Oct. 2023.
- Evelyn Yee. The Role of Reasoning and Truthfulness in Large Language Models. University of California San Diego: Summer Research Conference, 17 Aug. 2023.

TECHNICAL SKILLS

Programming Languages – Python, Java, C++, R, JavaScript, HTML, CSS, SQL, DAX **Software Tools** – Microsoft Excel, Microsoft Power BI, Workato, Snowflake, Matillion, Praat

TEACHING EXPERIENCE

Course Assistant

Stanford University Course: Introduction to Probability, ACE (MS&E 120ACE) Instructor: Dr. Ellen Vitercik (Assistant Professor)

- Serve the Additional Courses for Engineers (ACE) program, emphasizing equitable teaching for students from marginalized backgrounds.
- Design and present supplementary course content, including weekly lectures and additional tutoring as needed to improve student outcomes.

Undergraduate Tutor

UC San Diego

Course: Data Structures & Algorithms for Data Science (DSC 30) Instructor: Kevin Lin (Visiting Assistant Professor)

- Facilitated discussion sections, held office hours, and graded student assignments.
- Received unanimously positive final evaluations from students and the instructor.

OTHER EMPLOYMENT

Data Analytics Intern

The Boldt Company, Appleton, WI

- Created dynamic reports in Power BI to analyze budget usage, employee demographics, and project flow.
- Developed, deployed, and wrote documentation for two automated data archiving processes using Workato and Snowflake.
- Ran audits on project technology to ensure consistency across company data.
- Self-organized and coordinated with other IT members to deliver results according to internal customer deadlines.

September 2024 – Present

July 2023 - August 2023

June 2022 - March 2023

Webmaster

Randolph Community Clinic, Randolph, WI

- Manage digital infrastructure for the clinic's telehealth and COVID-19 vaccination efforts.
- Perform regular website administration to increase functionality and web traffic for patients.
- Collaborate with the clinic management team to develop digital solutions for business and healthcare issues.

SERVICE

Peer Mentor

Data Science Student Society, UC San Diego

- Advise new students through their transition to college and the data science major.
- Organize regular meetings to teach essential skills like goal setting and time management.

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RELEVANT COURSEWORK

Math (Linear Algebra, Vector Calculus & Analytical Geometry), Probability & Statistics, Data Structures & Algorithm Design, Machine Learning (Probabilistic Modeling, Recommender Systems, Deep Learning, Natural Language Processing), Signal Processing

COURSE PROJECTS

Etymology Visualization Dashboard

Introduction to Data Visualization (DSC 106). UC San Diego https://evelynyee.github.io/dsc106-final

- Design and build an interactive dashboard to allow open-ended exploration and analysis of a large, graph-based etymology dataset.
- Write custom HTML and CSS and perform live data processing using D3.js.
- Leverage GeoJSON data to place linguistic information in a real-life context.

Localized Noise Function for Stable Diffusion

Deep Learning for Natural Language Understanding (LIGN 167). UC San Diego https://github.com/evelynyee/lign-167-final-project

- Explore the effect of custom noise functions, to promote minimally-destructive inpainting functionality in text-to-image diffusion models.
- Integrate LLMs and computer vision systems into a pipeline for image processing using the diffusion model framework.

FOREIGN LANGUAGES

Spanish (C1 proficiency level) – Study abroad in Elche, Spain. August 2017 – December 2017 Mandarin Chinese (A1 proficiency level)

June 2023

December 2022

January 2023 – Ongoing