

Chuong Nguyen

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EDUCATION

University of California, San Diego - B.S. Computer Science

Sep 2022 - Jun 2026

Incoming fourth year | GPA: 3.800

RESEARCH PUBLICATIONS

First co-author on all publications listed below.

[2026] X Pi, Q Yang, **C Nguyen**, H Shen. *Bridging Human Interpretation and Machine Representation: A Landscape of Qualitative Data Analysis in the LLM Era*. arXiv preprint arXiv:2601.11739.

[2025] X Pi, Q Yang, **C Nguyen**. *LOGOS: LLM-driven End-to-End Grounded Theory Development and Schema Induction for Qualitative Research*. arXiv preprint arXiv:2509.24294.

[2024] A Smithwick, **C Nguyen**, E Gorial, N Tran, AM Flores, INS Munyaka. "Parent seeking Roblox Safety Help": Comparing Parental Roblox Concerns to Roblox Offerings. IEEE ISTAS 2024, pp. 1-9.

RESEARCH EXPERIENCE

Research Assistant, HDSI - UC San Diego

Apr 2025 - Present

- LLMs, agentic frameworks, and data mining for qualitative research; grounded theory, schema induction, and human-aligned reasoning.
- Fine-tuned LLMs with SFT/GRPO; explored test-time scaling and process reward models.

Research Assistant, Ujima Lab - UC San Diego

Sep 2023 - Oct 2024

- Beauty Filter: analyzed filter-driven facial enhancements and cultural bias; migrated landmark analysis to a remote server.
- Smart Mirror: Raspberry Pi + DeepFace/Retina for real-time facial analysis in a public art installation.

Early Research Scholars Program - UC San Diego

Sep 2023 - Jun 2024

Roblox Safety (IEEE ISTAS); Hate-Crime news pipeline (ERSP)

- Topic modeling on 10,000+ Reddit posts; surveyed 100 participants on parental concerns.
- Built scraping pipeline with SerpAPI, NewsPlease, DBSCAN, MeanShift, and OpenAI API.

PROJECT EXPERIENCE

Software Developer, Zooseeker

Apr 2024 - Jun 2024

- Database schema, Android UI revamp, and documentation for a zoo navigation app.

ACM AI - UC San Diego

Oct 2022 - Jan 2023

Credit Card Fraud Detector

- Compared KNN, RF, decision trees, SVM, and logistic regression; built and demoed a fraud detection web app.

SKILLS

Technical: Python, Java, C++, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, OpenCV, SQL, Git, Linux, LaTeX, Streamlit

Research: NLP & LLMs, RAG, RL, agentic frameworks, deep research, data mining, qualitative methods, computer vision

Languages: English, Vietnamese

AWARDS & LEADERSHIP

- Provost Honors - UC San Diego
- Machine Learning Specialization - Coursera
- Volunteer Youth Leader - Vietnamese Eucharistic Youth Movement (2022 - Present)
- Peer Mentor - UCSD Mentor Collective (2024)