

Tra My (Chiffon) Nguyen

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RESEARCH INTERESTS

Human-AI systems that reflect and support diverse human patterns: **multilingual and multicultural AI**, **AI alignment** (pluralistic alignment, cooperative AI, scalable oversight, evaluation, mechanistic interpretability), **socially-aware and responsible AI** (human-AI collaboration, human-AI interaction, ML fairness).

EDUCATION

Minerva University, College of Computational Sciences Sep 2021 — May 2025
B.S in Computational Sciences (Machine Learning and Statistics), GPA: 3.7/4.0 San Francisco, CA, USA

- Relevant Coursework: Machine Learning (A), AI Ethics, Bayesian Modeling (A), Statistical Modeling and Causal Inference (A), Optimization Methods (A), Probability and Statistics (A-), Software Engineering
- Certificates: [Natural Language Specialization](#) (deeplearning.ai, 2023), [Machine Learning Specialization](#) (2022)
- Self-study: [AI Alignment](#) (ARENA, 2025), [Introduction to AI Alignment](#) (Bluedot Impact, 2025)

RESEARCH EXPERIENCE

AI Safety Research Mentee Sep 2025 — Present
Algoverse AI Research (Advisor: [Eyon Jang](#)) Remote

- Topic: Scaling behavior of chain-of-thought monitoring

Machine Learning Research Assistant Jun 2024 — Aug 2024
AI & Mixed Reality Lab, Landshut University of Applied Sciences Landshut, Bavaria, Germany

- Advisors: [Prof Sandra Eisenreich](#) and [Prof Eduard Kromer](#)
- Topic: 3D object detection pipeline using PointPillars algorithm on standard and synthetic LiDAR point cloud datasets

Causal Inference Research Intern (Replication and Extension) Nov 2023 — Dec 2023
Minerva University (Advisor: [Prof. Alexis Diamond](#)) Remote

- Replicated and extended [Chrisinger \(2021\)](#)'s analysis of Philadelphia's SNAP benefit redemption in R, analyzing policy impacts across 4 counties and 50+ months of longitudinal data
- Identified critical limitations in dataset reliability and magnitude discrepancies between original and replicated results
- Conducted new leave-one-out robustness analysis on synthetic control models, showing model instability

Qualitative Student Researcher Feb 2023 — Apr 2023
Human Resources Department, T-Hub (Telangana's innovation hub) Hyderabad, Telegana, India

- Designed preliminary mental health framework serving 1,500 employees across 650+ startups by analyzing 30+ hours of interviews and employee databases in Excel, identifying 5 key stress factors to inform T-Hub's pilot program
- Led primary research in a team of four, conducting 30 structured interviews and distributing surveys to 50 employees, generating actionable insights that shaped T-Hub's mental health strategy for India's largest startup ecosystem

TEACHING EXPERIENCE

- **Minerva University**, *PR51 Programming with Python*, Peer Tutor and Data Analyst Spring 2025
- **Minerva University**, *FA51 Algorithmic Thinking and Simulation*, Lead Teaching Assistant Spring 2023, Spring 2024
- **Minerva University**, *FA50 Formal Logic, Probability and Statistics*, Lead Teaching Assistant Fall 2022, Fall 2023

OPEN-SOURCE & COMMUNITY ENGAGEMENT

- **Open-source and Eval Dataset Contributor** @ [HumaneBench](#) Oct 2025 - Present
- **Communication and Design Engineer** @ [SEACrowd](#) Aug 2025 - Present
- **Dataset Contributor** @ [Humanity's Last Exam](#) Feb 2025

SELECTED PROJECTS

Astro Academic Portfolio Theme for Researchers (github.com/mychiffonn/website) Aug 2025 — Oct 2025
High-performance academic theme, enabling fast, accessible, and multilingual publishing of publications and technical blogs while ensuring top-tier SEO (80+) and Lighthouse (100) scores using Astro, TailwindCSS and shadcn/ui

Mnemonic Generation for Vocabulary Learning (github.com/mychiffonn/mnemonic-gen) Oct 2024 — Mar 2025

- Designed an AI chatbot that generated diverse and memorable mnemonic devices for learning and retaining vocabulary, synthesizing 50+ papers across linguistics, psycholinguistics, language education, and large language models
- Implemented a Direct Preference Optimization (DPO) pipeline for preference modeling on Gemma3-1b using 500 human and LLM-annotated preference pairs (on memorability, imageability, and other learning retention measures)
- Utilized chain-of-thought distillation from a teacher model (DeepSeekR1) to instill linguistic chain-of-thought reasoning to a student model (Gemma3-1b) through supervised fine-tuning

TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript, R, SQL, Bash
- **Machine Learning & Statistics:** PyTorch, trl, unsloth, scikit-learn, LangGraph, LlamaIndex, SciPy, PyMC
- **Web:** React, Astro, Express, FastAPI, PostgreSQL, Flask, Jekyll, TailwindCSS, shadcn/ui
- **Tools & Technologies:** Git, Docker, Render, Railway, Netlify, LaTeX, Zotero, Typst

MENTORING

- Hien T. Mai (Minerva University) on machine learning research

Sep 2025 -