

Tra My (Chiffon) Nguyen

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RESEARCH INTERESTS

Human-AI systems that reflect and support diverse human experiences: **multilingual and multicultural AI**, **AI alignment** (pluralistic alignment, cooperative AI, scalable oversight, evaluation, control, interpretability), **socially aware AI** (human-AI collaboration, human-AI interaction, social intelligence), and **AI ethics**.

EDUCATION

Minerva University, College of Computational Sciences

Sep 2021 — May 2025

B.Sc 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 Research Mentee

Nov 2025 — Present

Cohere Labs Open Science Initiative (Advisor: [Ilia Badanin](#))

Remote

- Topic: Multilingual token optimization via cross-Lingual embedding alignment

AI Safety Research Mentee

Sep 2025 — Present

Algoverse AI Research (Advisor: [Eyon Jang](#))

Remote

- Topic: Scaling behavior of chain-of-thought monitoring in white-box models

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

TEACHING & MENTORING EXPERIENCE

• **Curious Cardinals**, *High School Passion Project*, Mentor

Oct 2025 - Present

• **Minerva University**, *PR51 Programming with Python*, Peer Tutor and Data Analyst

Spring 2025

• **Minerva University**, *FA51 Algorithmic Thinking and Game Theory*, Lead Teaching Assistant

Spring 2023, 2024

• **Minerva University**, *FA50 Formal Logic, Probability and Statistics*, Lead Teaching Assistant

Fall 2022, 2023

OPEN-SOURCE

Open-source and Eval Dataset Contributor @ [HumaneBench](#)

Oct 2025 - Present

- Help build new human-friendly benchmark for AI using Pydantic and [Inspect](#) frameworks

Lead Design Engineer @ [SEACrowd](#)

Aug 2025 - Present

- Main designer, developer and maintainer of seacrowd.org website (Jekyll, Bootstrap)

Dataset Contributor @ [Humanity's Last Exam](#)

Feb 2025

SELECTED PROJECTS

More projects on mychiffonn.com/projects.

SportConnect (github.com/mychiffonn/sport-connect)

Nov 2025

Partiful for local sport games: organizers can host and manage their games, and users can search for events to join. Two-person full-stack project with TypeScript, React, Express, TailwindCSS, shadcn/ui, and BetterAuth.

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 (99) 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
- 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
- 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)

TECHNICAL SKILLS

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