

# Tra My (Chiffon) Nguyen

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## RESEARCH INTERESTS

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Human-AI systems that reflect and support diverse human patterns: **multilingual and multicultural AI**, **AI alignment** (pluralistic alignment, cooperative AI, scalable oversight, evaluation, control, mechanistic interpretability, representation engineering), **interaction-centric AI** (human-AI collaboration, human-AI interaction), and **AI ethics**.

## EDUCATION

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**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

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**AI Safety Research Mentee**

Sep 2025 — Present

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

*Remote*

- Topic: Scaling behavior of chain-of-thought monitoring when threat models sabotage or reward hack

**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

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- **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

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**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](https://seacrowd.org) website (Jekyll, Bootstrap)

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

Feb 2025

## SELECTED PROJECTS

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**Astro Academic Portfolio Theme for Researchers** ([github.com/mychiffonn/website](https://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 shaden/ui

**Mnemonic Generation for Vocabulary Learning** ([github.com/mychiffonn/mnemonic-gen](https://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

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- **Programming Languages:** Python, TypeScript, R, SQL, Bash
- **Machine Learning & Statistics:** PyTorch, trl, unsloth, Inspect, 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