

# 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, control, mechanistic interpretability, representation engineering), **interaction-centric AI** (human-AI collaboration, human-AI interaction), and **AI ethics**.

## EDUCATION

<b>Minerva University, College of Computational Sciences</b>	Sep 2021 — May 2025
<i>B.S in Computational Sciences (Machine Learning and Statistics)</i> , GPA: 3.7/4.0	<i>San Francisco, CA, USA</i>
• 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: <a href="#">Natural Language Specialization</a> (deeplearning.ai, 2023), <a href="#">Machine Learning Specialization</a> (2022)	
• Self-study: <a href="#">AI Alignment</a> (ARENA, 2025), <a href="#">Introduction to AI Alignment</a> (Bluedot Impact, 2025)	

## RESEARCH EXPERIENCE

<b>AI Safety Research Mentee</b>	Sep 2025 — Present
Algoverse AI Research (Advisor: <a href="#">Eyon Jang</a> )	<i>Remote</i>
• Topic: Scaling behavior of chain-of-thought monitoring when threat models sabotage or reward hack	
<b>Machine Learning Research Assistant</b>	Jun 2024 — Aug 2024
AI & Mixed Reality Lab, Landshut University of Applied Sciences	<i>Landshut, Bavaria, Germany</i>
• Advisors: <a href="#">Prof. Sandra Eisenreich</a> and <a href="#">Prof. Eduard Kromer</a>	
• Topic: 3D object detection pipeline using PointPillars algorithm on standard and synthetic LiDAR point cloud datasets	
<b>Causal Inference Research Intern (Replication and Extension)</b>	Nov 2023 — Dec 2023
Minerva University (Advisor: <a href="#">Prof. Alexis Diamond</a> )	<i>Remote</i>
• Replicated and extended <a href="#">Chrisinger (2021)</a> '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

<b>Curious Cardinals, High School Passion Project</b> , Mentor	Oct 2025 - Present
<b>Minerva University, PR51 Programming with Python</b> , Peer Tutor and Data Analyst	Spring 2025
<b>Minerva University, FA51 Algorithmic Thinking and Game Theory</b> , Lead Teaching Assistant	Spring 2023, 2024
<b>Minerva University, FA50 Formal Logic, Probability and Statistics</b> , Lead Teaching Assistant	Fall 2022, 2023

## OPEN-SOURCE

<b>Open-source and Eval Dataset Contributor @ <a href="#">HumaneBench</a></b>	Oct 2025 - Present
• Help build new human-friendly benchmark for AI using Pydantic and <a href="#">Inspect</a> frameworks	
<b>Lead Design Engineer @ <a href="#">SEACrowd</a></b>	Aug 2025 - Present
• Main designer, developer and maintainer of <a href="#">seacrowd.org</a> website (Jekyll, Bootstrap)	

<b>Dataset Contributor @ <a href="#">Humanity's Last Exam</a></b>	Feb 2025
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## SELECTED PROJECTS

<b>Astro Academic Portfolio Theme for Researchers</b> ( <a href="#">github.com/mychifffonn/website</a> )	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	
<b>Mnemonic Generation for Vocabulary Learning</b> ( <a href="#">github.com/mychifffonn/mnemonic-gen</a> )	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