

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 <i>B.Sc in Computational Sciences (Machine Learning and Statistics)</i> , GPA: 3.7/4.0	Sep 2021 — May 2025 <i>San Francisco, CA, USA</i>
<ul style="list-style-type: none">• 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 Cohere Labs Open Science Initiative (Advisor: Ilia Badanin)	Nov 2025 — Present <i>Remote</i>
<ul style="list-style-type: none">• Topic: Multilingual token optimization via cross-Lingual embedding alignment	
AI Safety Research Mentee Algoverse AI Research (Advisor: Eyon Jang)	Sep 2025 — Present <i>Remote</i>
<ul style="list-style-type: none">• Topic: Scaling behavior of chain-of-thought monitoring in white-box models	
Machine Learning Research Assistant AI & Mixed Reality Lab, Landshut University of Applied Sciences	Jun 2024 — Aug 2024 <i>Landshut, Bavaria, Germany</i>
<ul style="list-style-type: none">• 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) Minerva University (Advisor: Prof. Alexis Diamond)	Nov 2023 — Dec 2023 <i>Remote</i>
<ul style="list-style-type: none">• 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

<ul style="list-style-type: none">• Curious Cardinals, <i>High School Passion Project</i>, Mentor• Minerva University, <i>PR51 Programming with Python</i>, Peer Tutor and Data Analyst• Minerva University, <i>FA51 Algorithmic Thinking and Game Theory</i>, Lead Teaching Assistant• Minerva University, <i>FA50 Formal Logic, Probability and Statistics</i>, Lead Teaching Assistant	Oct 2025 - Present Spring 2025 Spring 2023, 2024 Fall 2022, 2023
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OPEN-SOURCE

Open-source and Eval Dataset Contributor @ HumaneBench	Oct 2025 - Present
<ul style="list-style-type: none">• Help build new human-friendly benchmark for AI using Pydantic and Inspect frameworks	
Lead Design Engineer @ SEACrowd	Aug 2025 - Present
<ul style="list-style-type: none">• Main designer, developer and maintainer of seacrowd.org website (Jekyll, Bootstrap)	

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

Feb 2025

SELECTED PROJECTS

More projects on [mychifffonn.com/projects](#).

SportConnect ([github.com/mychifffonn/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