

# Tra My (Chiffon) Nguyen

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## RESEARCH INTERESTS

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Current and future AI systems that reflect and support diverse human experiences: socio-technical AI alignment (pluralistic alignment, scalable oversight, evaluation), multilingual and multicultural AI, socially responsible AI, and AI ethics.

## EDUCATION

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### 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
- Global Rotation: Seoul (South Korea), Chinese Taipei, Hyderabad (India), Buenos Aires (Argentina), Berlin (Germany)
- Self-study: [Technical AI Alignment](#) (ARENA, 2025), [Introduction to AI Alignment](#) (Bluedot Impact, 2025)

## RESEARCH EXPERIENCE

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### AI Research Collaborator

Nov 2025 — Present

Cohere Labs Community (Advisor: [Ilia Badanin](#))

*Remote*

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

### AI Safety Research Mentee

Oct 2025 — Present

Algoverse AI Research (Advisor: [Yeonwoo 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 with PointPillars algorithm on standard and synthetic LiDAR point cloud datasets

## TEACHING & MENTORING EXPERIENCE

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- **Curious Cardinals**, *Passion Project & Executive Functioning*, High School Mentor Nov 2025 - Present
- **Minerva University**, *PR51 Programming with Python*, Lead 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

## LEADERSHIP & OPEN-SOURCE

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Communications Assocate & Lead Design Engineer @ [SEACrowd](#)

Aug 2025 - Present

Evals Contributor @ [Humane Bench](#)

Oct 2025

## SELECTED RESEARCH PROJECTS

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More projects on [mychiffonn.com/projects](https://mychiffonn.com/projects) and [github.com/mychiffonn](https://github.com/mychiffonn)

### Replication: Counterfactual Test for Faithfulness

Dec 2025

- Replicated [Atanasova et.al. \(2023\)](#)'s a baseline of counterfactual test, which can be applied to evaluate whether language model explanations are faithful by checking if perturbing input features leads to changes in model output and explanations (such as chain-of-thought reasoning).

### Replication: Unsupervised Elicitation of Language Models ([github.com/mychiffonn/icm](https://github.com/mychiffonn/icm))

Dec 2025

- Replicated [Wen et. al \(2025\)](#)'s Internal Coherence Maximization, which elicits human concepts from base language models by maximizing mutual predictability and local consistency among concept-related examples.

### 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 retention rates)

**Replication: Synthetic Control (Causal Inference)** ([github.com/mychiffonn/synthetic-control-rep](https://github.com/mychiffonn/synthetic-control-rep)) Dec 2023

- 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

## SELECTED WEB/APP PROJECTS

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**SportConnect: Connect Through Local Sport Events** ([github.com/mychiffonn/sport-connect](https://github.com/mychiffonn/sport-connect)) Nov 2025

Scalable web application connecting users to local recreational sports events, featuring secure multi-provider OAuth authentication, comprehensive event management, easy event discovery and filtering, and real-time RSVP tracking. Two-person full-stack project with TypeScript, React, Express, PostgreSQL, TailwindCSS, DaisyUI, and BetterAuth.

**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 (99) and Lighthouse (100) scores using Astro, TailwindCSS, and shadcn/ui

## CERTIFICATES

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- **Advanced Web Development**, CodePath ([drive.google.com/file/d/1n4dHj4TFM8HWIDXMTt9ZGjEXVIpkP-F-/view](https://drive.google.com/file/d/1n4dHj4TFM8HWIDXMTt9ZGjEXVIpkP-F-/view))
- **Natural Language Specialization**, deeplearning.ai ([coursera.org/verify/specialization/3FJ3W7QJX8GK](https://coursera.org/verify/specialization/3FJ3W7QJX8GK)) Nov 2023
- **Applied Data Science**, World Quant University ([credly.com/badges/2e1e6902-aae4-47c4-97e2-0ad9265e5561](https://credly.com/badges/2e1e6902-aae4-47c4-97e2-0ad9265e5561)) Aug 2023
- **Machine Learning Specialization**, deeplearning.ai ([coursera.org/verify/specialization/G9898XKB9EAV](https://coursera.org/verify/specialization/G9898XKB9EAV)) Jun 2022

## SKILLS

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- **Programming Languages:** Python, TypeScript, SQL, R, Bash
- **Machine Learning:** PyTorch, Inspect, unsloth, trl, scikit-learn, LangGraph, LlamaIndex
- **Web Development:** Astro, React, FastAPI, Flask, Express.js, PostgreSQL, TailwindCSS, shadcn/ui
- **Tools & DevOps:** Git, Docker, Render, Netlify, LaTeX, Zotero, Typst
- **Languages:** Vietnamese (native), English (fluent/C2), Mandarin Chinese (lower-intermediate/band 4)