

Tianle Li

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

B.S. Electrical Engineering and Computer Science; GPA: 3.75

2021-2025

Data Structure, Algorithms, Computer Architecture, Convex Optimization, ML, DNN, Deep RL, NLP.

Research Advisor: [Ion Stoica](#)

EXPERIENCE

xAI

PALO ALTO, CA

Member of Technical Staff

May 2025 - Present

- *Post-training -> Reasoning Efficiency -> Science of RL*
- **Grok 4.2 - Co-creator - My checkpoint**
 - I solo ran large production experts merging and joint recipes from over a dozen specialized grok experts.
 - I solo scaled the first experts merging infra to support large scale on policy distillation from over 20 experts from vastly different domains: STEM, SWE, multimodal, multiagent, tool use, and more.
 - As the sole person doing the expert merging, I communicate with all the verticals within reasoning and maintain all the contexts and recipes for all experts. It was a hard job to be honest.
 - SOTA performance across HLE, Browsecomp, MathApex Arena, IMO Proofbench, SWEbench, and more.
- **[Grok 4.1](#) - Co-creator - My checkpoint**
 - I ran large production post-training big runs (20K H200s), led post-training mixture and recipe studies.
 - Thinking version achieved #1 on LMArena & Expert Arena and non-thinking version achieved #2.
- **[Grok 4 Fast](#) - Co-creator - My checkpoint**
 - Led Post-training RL Training, co-led distillation datasets for mid-training and SFT, and led offline evaluation.
 - Responsible for iterating and training on the joint mixture from all verticals and domains and launching key RL ablations and recipe studies.
 - Solo built the initial infra to support post-training RL and Reward Model training, which the post-training team relies on for different verticals.
 - Scaled post-training RL by 100x since Grok 4 and achieved over 2x improvement in terms of reasoning efficiency.
 - Grok 4 Fast is #8 on LMArena, #1 on Search Arena, and #3 on Artificial Analysis.
- **[Grok 4](#) - Core Contributor**
 - Built north star production auto eval to predict model performance on Grok.com; babysit with human tutor teams.
 - Developed synthetic RL datasets to improve model tool use efficiency, response presentations, and reasoning length extension.
 - Pushed Grok 4's tool use capabilities, especially on challenging open-ended research questions.
- **RL Science**
 - I have been working on RL scaling, token efficiency, continual learning, and self-play, developing various recipes.

BERKELEY SKY COMPUTING LAB

BERKELEY, CA

Undergrad Researcher

JULY 2023 - May 2025

[Chatbot Arena](#) (Core Contributor)

- An open platform for evaluating LLMs by human preference with millions of monthly users.
- We privately tested GPT-4o, Grok 3, Gemini Flash and Pro, Meta Llama 3.2, and more.
- I lead research on human preference and data analysis, focusing on benchmark granularity and preference understanding.
- I built the categories: Hard Prompt, Style Control, Instruction-Following, Math, Creative Writing, and more.
- I'm advised on projects including Search Arena, PDFChat, User leaderboard, and more.

NEXUSFLOW

Machine Learning Engineer

PALO ALTO, CA

MAY 2024 - May 2025

Athene-V2-Chat-72B: co-trained the best open weight LLM; post-trained from Qwen 2.5.

- On par with GPT-4o and Claude 3.5 Sonnet on Chatbot Arena (Rank 5), surpass GPT-4o and Llama-3.1-405B on LiveCodeBench, Aider, GPQA, MATH, and more (Nov 2024).

Athene-70B: co-trained the best open weight chat LLM post-trained using Llama-3-70b base model.

- Rank 8 on Chatbot Arena Overall, Rank 5 on Chatbot Arena Hard Prompt (July 2024).
- I co-trained the 70B reward model for aligning Athene using PPO using 32 H100 GPUs.
- I led data curation and evaluation, successfully improved Llama-3 on technical and multilingual queries.

Starling-LM-7B-beta: the world's best 7B chat LLM post-trained from OpenChat.

- Best 7B model on Chatbot Arena, on par with Llama-2-70B and Vicuna-33B (Nov 2023). I led the evaluation part.

GOOGLE AI

Student Researcher

MOUNTAIN VIEW, CA

FEB 2025 - May 2025

- Improve and evaluate reasoning in LLMs. Our evaluation method was published in NAACL.

AMD

Software Development Intern

San Jose, CA

MAY 2023 - August 2023

- Built Xilinx's Digital Signal Processing library.

SELECTED PUBLICATION ([Google Scholar](#))

1. **From Crowdsourced Data to High-Quality Benchmarks: Arena-Hard and BenchBuilder** (ICML 2025)
Tianle Li*, Wei-Lin Chiang*, Evan Frick, Lisa Dunlap, Tianhao Wu, Banghua Zhu, Joseph E. Gonzalez, Ion Stoica.
2. **Prompt-to-Leaderboard** (ICML 2025)
Evan Frick*, Connor Chen*, Joseph Tennyson*, Tianle Li*, Wei-Lin Chiang*, Anastasios N. Angelopoulos*, Ion Stoica.
3. **How to Evaluate Reward Models for RLHF** (ICLR 2025)
Evan Frick, Tianle Li, Connor Chen, Wei-Lin Chiang, Anastasios N. Angelopoulos, Jiantao Jiao, Banghua Zhu, Joseph E. Gonzalez, Ion Stoica.
4. **Chatbot Arena: An Open Platform for Evaluating LLMs by Human Preference** (ICML 2024)
Wei-Lin* Chiang, Lianmin* Zheng, Ying Sheng, Anastasios Nikolas Angelopoulos, Tianle Li, Dacheng Li, Banghua Zhu, Hao Zhang, Michael Jordan, Joseph E. Gonzalez, Ion Stoica.
5. **LMSYS-Chat-1M: A Large-Scale Real-World LLM Conversation Dataset** (ICLR 2024 Spotlight)
Lianmin Zheng*, Wei-Lin Chiang*, Ying Sheng, Tianle Li, Siyuan Zhuang, Zhanghao Wu, Yonghao Zhuang, Zhuohan Li, Zi Lin, Eric Xing, Joseph E. Gonzalez, Ion Stoica, Hao Zhang.
6. **Project MPG: towards a generalized performance benchmark for LLM capabilities** (NAACL 2025)
Lucas Spangher, Tianle Li, William F. Arnold, Nick Masiewicki, Xerxes Dotiwalla, Rama Parusmathi, Peter Grabowski, Eugene Ie, Dan Gruhl.
7. **Search Arena: Analyzing Search-Augmented LLMs** (In Review)
Mihran Miroyan, Tsung-Han Wu, Logan King, Tianle Li, Jiayi Pan, Xinyan Hu, Wei-Lin Chiang, Anastasios N. Angelopoulos, Trevor Darrell, Narges Norouzi, Joseph E. Gonzalez

* means equal contribution.

TECHNICAL BLOG

1. [Chatbot Arena Categories: Definitions, Methods, and Insights](#)
Tianle Li, Wei-Lin Chiang, Yifan Song, Naman Jain, Lisa Dunlap, Dacheng Li, Evan Frick, Anastasios N. Angelopoulos.
2. [Does Style Matter? Disentangling style and substance in Chatbot Arena](#)
Tianle Li*, Anastasios Angelopoulos*, Wei-Lin Chiang*.
3. [Athene-70B: Redefining the Boundaries of Post-Training for Open Models](#)
Evan Frick*, Peter Jin*, Tianle Li*, Karthik Ganesan, Jian Zhang, Jiantao Jiao, Banghua Zhu.
4. [Introducing Hard Prompts Category in Chatbot Arena](#)
Tianle Li, Wei-Lin Chiang, Lisa Dunlap.
5. [What's up with Llama 3? Arena data analysis](#)
Lisa Dunlap, Evan Frick, Tianle Li, Isaac Ong, Joseph E. Gonzalez, Wei-Lin Chiang.
6. [Chatbot Arena: New models & Elo system update](#)
Wei-Lin Chiang, Tianle Li, Joseph E. Gonzalez, Ion Stoica.
7. [Introducing Athene-V2: Advancing Beyond the Limits of Scaling with Targeted Post-training](#)
The Nexusflow Team.

OPEN SOURCE PROJECT

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|-----------------------------------------------------------------------------------------------------------------------|------------|
| 1. FastChat (Contributor) | 38K+ Stars |
| An open infra for training, serving, and evaluating large language models. Release repo for Vicuna and Chatbot Arena. | |
| 2. Arena-Hard-Auto (Lead) | 900+ Stars |
| An automatic evaluation tool for instruction-tuned LLMs, highly correlated with Chatbot Arena. | |

TEACHING

EECS 127: Convex Optimization for Machine Learning

UC BERKELEY

Teaching Assistant

SEPTEMBER 2023 - MAY 2024

This upper division course offers the theories behind optimization models and their applications, ranging from machine learning and statistics to decision-making and control, with emphasis on numerically tractable problems, such as linear, quadratic, conic, or constrained least-squares optimization.

PERSONAL PROJECT

Speaking in Chess

https://github.com/CodingWithTim/Speaking_in_Chess

- Pretrained and supervised fine-tuned GPT-2 128M on over 20 million chess games using a custom chess tokenizer.
- Evaluated 6 RL strategies, including 3 novel algorithms: Fictitious Self-Play, Past-Present Q-Iteration, Funnel Searching.
- Achieve over 95% draw rate against StockFish 3000 elo chess engine with gameplay accuracy averaging 90%.

* means equal contribution.