

# Timothy Do

(408) 250-1737 | [tim.do.info@gmail.com](mailto:tim.do.info@gmail.com) | [linkedin.com/in/timothykhangdo](https://linkedin.com/in/timothykhangdo) | [github.com/t1modo](https://github.com/t1modo)

## Education

### San Jose State University

Bachelor of Science in Software Engineering

Dec. 2027

GPA: 3.86/4.00

## Publications

### ERGO: Entropy-guided Resetting for Generation Optimization in Multi-turn Language Models

H. M. Khalid, A. Jeyaganthan, [T. Do](#), Y. Fu, S. O'Brien, V. Sharma, K. Zhu

*In Proceedings of the Second Workshop on Uncertainty-Aware NLP @ EMNLP 2025* | [Published Paper](#)

*Accepted to First Workshop on Multi-Turn Interactions in Large Language Models @ NeurIPS 2025* | [Poster](#)

*Accepted to Reliable ML from Unreliable Data @ NeurIPS 2025* | [Poster](#)

### Timing of Ultrafast Electron and Laser Pulses with Narrowband THz Interferometry for Ultrafast Electron Diffraction

S. Weathersby, [T. K. Do](#), V. Dolgashev, C. Duncan, J. England, P. Kramer, M. Othman, D. Palmer

*In Proceedings of 2025 North American Particle Accelerator Conference (NAPAC)* | [Published Paper](#)

### Pruning for Performance: Efficient Idiom and Metaphor Classification in Low-Resource Konkani Using mBERT

[T. Do](#), P. Saran, H. Poojary, P. Prabhu, S. O'Brien, V. Sharma, K. Zhu

*Accepted to Student Research Workshop @ IJCNLP-AACL 2025* | [Poster](#)

*Accepted to 1st Workshop on Multilingual Data Quality Signals @ COLM 2025* | [Poster](#)

## Experience

### Radio Frequency Accelerator Research Intern | [Research Poster](#)

June 2025 – Aug. 2025

SLAC National Accelerator Laboratory

Menlo Park, CA

- Analyzed accelerator data and improved MeV-UED camera time resolution by **33%** using S3DF resources
- Processed and visualized electron beam timing data with Python in Jupyter Notebook environments
- Evaluated ePix and Andor camera results to measure electron arrival and timing jitter precisely

### Artificial Intelligence Research Intern | [Published Paper](#)

May 2025 – July 2025

Algoverse

Remote

- Developed ERGO method achieving **56.6%** average performance improvement over multi-turn baselines
- Recovered **15%** performance drop in multi-turn conversations using entropy-guided prompt restructuring
- Reduced response variability by **35.3%**, addressing **112%** increase in conversational AI inconsistency

### Artificial Intelligence Research Intern | [Published Paper](#)

Jan. 2025 – May 2025

Algoverse

Remote

- Utilized a hybrid mBERT+BiLSTM model for figurative language detection, trained on low-resource Konkani
- Achieved an accuracy of **83%** for idiom classification and **78%** for metaphor classification
- Maintained **100%** idiom and **88%** metaphor classification accuracy while pruning attention heads

### Engineering Success Research Intern | [Research Poster](#)

Sep. 2023 – April 2024

San Jose State University – Charles W. Davidson College of Engineering

San Jose, CA

- Researched AR simulations for visualizing wave mechanics and 3D physics concepts
- Proposed AR labs reducing physics education costs by **30%** over 3–5 years

## Research Activities

Technical AI Safety Program Participant, BlueDot Impact (Selective Cohort, Jan. 2026)

Peer Reviewer, NeurIPS 2025 Workshop on Multi-Turn Interactions in Large Language Models (MTI-LLM)

Peer Reviewer, COLM 2025 Workshop on Multimodal Data Quality and Standards (WMDQS)

## Technical Skills

**Languages:** Python, Java, JavaScript, LaTeX, C, HTML/CSS, C++

**Frameworks & Libraries:** Next.js, React, React Native, Expo, Flask, JavaFX, TailWind CSS, Pytorch, Matplotlib

**Databases:** Firebase, MongoDB, SQLite

**Developer Tools:** Jupyter Notebook, Git, Visual Studio Code, Eclipse, Scene Builder, SolidWorks, Vercel