

# Jingwen Gu

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**Research Interests:** Reinforcement Learning (RL); Natural Language Processing (NLP); Language Model Reasoning

## EDUCATION

**Cornell University, Major:** Architecture, **Minor:** Computer Science, Mathematics

**Expected Graduation:** May 2026

**Cumulative GPA:** 4.065/4.3

**Relevant Coursework:** CS6789 Foundations of RL (A+); CS4756 Robot Learning (A+); CS4780 Intro to ML (A+)

**Selected Honors and Awards:** Dean's List (All Semesters since Fall 2022); 2<sup>nd</sup> Place, Barbara G. Laurie Student Design Competition (October, 2022); Outstanding Winner, International Mathematical Modelling Challenge(IMMC), Greater China Region (March 2020); Finalist, Mathematical Contest in Modelling MCM/ICM (February 2020)

## PUBLICATIONS & CONFERENCE PRESENTATIONS

1. **Jingwen Gu\***, Yiting He\*, Zhishuai Liu\*, Pan Xu. (2025). Policy Regularized Distributionally Robust Markov Decision Processes with Linear Approximation. *Under Review.* (*arXiv:2510.14246*)
2. Jiaru Zou\*, Ling Yang\*, **Jingwen Gu**\* (equal contribution), Jiahao Qiu, Ke Shen, Jingrui He, Mengdi Wang. (2025). ReasonFlux-PRM: Trajectory-Aware PRMs for Long Chain-of-Thought Reasoning in LLMs. *NeurIPS 2025.* (*arXiv:2506.18896*)
3. Bradley Guo, **Jingwen Gu**, Jin Peng Zhou, Wen Sun. (2025). Learning to Self-Correct through Chain-of-Thought Verification. *ICML 2025, 2<sup>nd</sup> Workshop on Test-Time Adaptation: Putting Updates to the Test (PUT)*
4. Jin Peng Zhou, Katie Z Luo, **Jingwen Gu**, Jason Yuan, Kilian Q. Weinberger, Wen Sun. (2025). Orchestrating LLMs with Different Personalizations. *arXiv preprint(arXiv:2407.04181)*.
5. **Jingwen Gu**, Timur Dogan. (2025). Virtual Horizon Method: Fast Shading Calculations for UBEM using Lidar Data Rasterization. *Oral Presentation at IBPSA Building Simulation 2025.*

## RESEARCH EXPERIENCE

Research Intern, **WEIRD Lab, University of Washington** (Advisor: Prof. Abhishek Gupta)

Jun. 2025 – Present

- Conducting research on in-context reinforcement learning methods to robotic control and sim-to-real transfer;
- Implementing meta-RL algorithms in various robotic environments (e.g., IsaacLab, Robosuite);
- Achieved 31% improvement in trajectory returns after sim-to-real transfer.

Research Intern, **Cornell Computing and Information Science** (Advisor: Prof. Wen Sun)

Jan. 2024 – Present

- Worked on multi-objective reinforcement learning (MORL) for language model personalization;
- Fine-tuned and aligned 7B-scale language models with PPO for multi-objective tasks;
- Evaluated and compared 5 different MORL methods, identifying trade-offs in reward balancing;
- Obtained 62% average win-rate against existing MORL methods on personalization.

Research Intern, **Environmental Systems Lab, Cornell University** (Advisor: Prof. Timur Dogan) Aug. 2023 – May. 2025

- Developed LiDAR-based ray tracing methods for urban topographies under Prof. Timur Dogan.
- Built a C# application interfacing with Vulkan and OpenGL, enabling fast urban shading simulations.
- Reduced computation time by **6x** compared to traditional methods.

## PROFESSIONAL & LEADERSHIP EXPERIENCE

Chief Engineer & Co-founder, **DerekAI, Seattle, WA**

Jun. 2024 – Present

- Implemented quantization, pruning, and knowledge distillation for large language model compression;
- Reduced model size and runtime memory by 10x while maintaining performance and inference latency;
- Built an MVP for an edge-device chatbot distilled from 7B LLMs, designed as a dungeon master;
- Built a chrome extension that utilizes SLM for edge-device browsing history semantic search.

Computer-Aided Architectural Design Intern, **Archi-Union Architects, Shanghai, China**

May – Jul. 2023

- Mentored by lead architects Philip F. Yuan and Weizhe Gao;
- Produced parametric design scripts in Grasshopper for sun-shading materials;
- Contributed to design schemes of Sichuan Digital Rural Exhibition Center and SUSAS Gallery;
- Generated renderings and design development for the CSCEC Headquarters Office.

## PROFESSIONAL SKILLS

**Programming Languages:** Python (Proficient), Java (Proficient), C# (Proficient), C/C++ (Intermediate)

**Frameworks/Tools:** PyTorch, NumPy, Pandas, Transformers, OpenGL, Vulkan, LaTeX

**Languages:** Proficient in English, Native in Mandarin Chinese