**Jingwen Gu**

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I am passionate about reinforcement learning, robotics, and natural language processing, and I aim to help develop the next generation of RL algorithms to further the horizon of intelligence.

**EDUCATION**

**Cornell University | Computer Science + Math + Architecture** Expected Graduation: May 2026

* Current GPA: 4.066/4.0
* Dean’s List: FA21, SP22, FA22, SP23, FA23, SP24, FA24
* Related Coursework: CS6789-Foundations of RL **(A+)**; CS4756-Robot Learning **(A+)**; CS4780-Intro to ML **(A+)**, and many more.

**PUBLICATIONS**

* Jiaru Zou\*, Ling Yang\*, **Jingwen Gu\*** (equal contribution), Jiahao Qiu, Ke Shen, Jingrui He, Mengdi Wang. ReasonFlux-PRM: Trajectory-Aware PRMs for Long Chain-of-Thought Reasoning in LLMs. Under review.
* Bradley Guo, **Jingwen Gu**, Jin Peng Zhou, Wen Sun. Learning to Self-Correct through Chain-of-Thought Verification. ICML 2025, 2nd Workshop on Test-Time Adaptation: Putting Updates to the Test (PUT)
* Jin Peng Zhou, Katie Z Luo, **Jingwen Gu**, Jason Yuan, Kilian Q. Weinberger, Wen Sun. Orchestrating LLMs with Different Personalizations. arXiv preprint ([arXiv:2407.04181](https://arxiv.org/abs/2407.04181)).
* **Jingwen Gu**, Timur Dogan. Virtual Horizon Method: Fast Shading Calculations for UBEM using Lidar Data Rasterization. IBPSA Building Simulation 2025.

**EXPERIENCE**

**Research Intern | WEIRD Lab, Univeristy of Washington | Seattle, WA** June 2025 – Aug 2025

* Undertook reinforcement learning and robotics research under Professor Abhishek Gupta.
* Extended in-context reinforcement learning methods to robotics tasks and sim-to-real settings.

**Chief Enginer & Co-founder | Dereka AI | Seattle, WA** June 2024 - Present

* Implemented quantization + pruning + knowledge distillations for LM compression.
* Able to compress model file size and runtime memory footprint 10 times while retaining performance and inference latency.
* Building an MVP to create a edge-device chatbot distilled from 7B models that acts as a dungeon master.

**Research Associate | Cornell Computing and Information Science | Ithaca, NY** January 2024 - Present

* Undertook Reinforcement Learning research under Professor Wen Sun.
* Finetuned and aligned multi-objective 7B language models using PPO.
* Analyzed the performance difference between different Multi-objective Reinforcement Learning (MORL) methods.

**Research Associate | Cornell Environmental Systems Lab | Ithaca, NY** August 2023 - Present

* Undertook Computer Graphics research under Professor Timur Dogan.
* Developed fast LiDAR-based raytracing methods for urban topographies.
* Built application using C#; interfaced with Vulkan and OpenGL.**Computer-Aided Architectural Design Intern | Archi-Union Architects | Shanghai, China** May 2023 – July 2023
* Mentored by lead architects Philip F. Yuan and Weizhe Gao.
* Produced Grasshopper-based parametric design scripts for sun-shading materials.
* Contributed design schemes of Sichuan Digital Rural Achievements Exhibition Center and the SUSAS Gallery.
* Produced renderings and participated in the design development of the CSCEC Headquarters Office.

**HONORS**

Second 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

**SKILLS**

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

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

**Languages:** English (fluent) | Mandarin (native)