# YIFENG LIU

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## EDUCATION

**University of California, Santa Barbara** *2026.9 – Present*
Ph.D. student in Computer Science Advisor: Shiyu Chang

**Nanjing University** *2022.9 – 2026.6*
B.Sc. in Computer Science and Technology
GPA: 4.55/5.00 (Average Score: 91/100)

## PUBLICATIONS AND PREPRINTS

**Mending the Holes: Mitigating Reward Hacking in Reinforcement Learning for Multilingual Translation**
**Yifeng Liu**, Siqi Ouyang, Yatish Hosmane Revanasiddappa, Lei Li
*ACL 2026 Findings*

**R-PRM: Reasoning-Driven Process Reward Modeling**
Shuaijie She*, Junxiao Liu*, **Yifeng Liu**, Jiajun Chen, Xin Huang, Shujian Huang
*EMNLP 2025*

**Drift-Constrained Optimization: Only Direction Matters in Fine-Tuning Instruct Models**
Fei Yuan, Changjiang Gao, Yilei Tu, **Yifeng Liu**, Shujian Huang, Yu Qiao
*In submission*

## RESEARCH EXPERIENCE

**Visiting Research Intern** *2025.5 – 2025.11*
Carnegie Mellon University. Advisor: Prof. Lei Li Pittsburgh, United States

- Multilingual LLMs, Low-Resource Translation, Reinforcement Learning, Reward Hacking

**Research Assistant** *2023.9 – 2024.6*
Nanjing University. Advisor: Prof. Shujian Huang Nanjing, China

- Process Reward Modeling, LLM Reasoning

## TEACHING EXPERIENCE

**Teaching Assistant** Problem Solving with Computers *2026 Fall*

## AWARDS AND SCHOLARSHIPS

**National Scholarship** *2025.10*
Top 0.2% nationwide, the highest honor for undergraduates in China *Ministry of Education, China*

**Outstanding Graduate** *2026.06*
Awarded to top 5% Nanjing University graduates every year *Nanjing University*

**Nanjing University Scholarship** *2024.11*
Awarded to top 10% students in Nanjing University every year *Nanjing University*

**Outstanding Student** *2024.11*
Awarded to top 5% students in Nanjing University every year *Nanjing University*

**Tencent Scholarship** *2023.10*
Awarded to top 5% students in School of Computer Science every year *Tencent Company*

## SKILLS

**Programming Languages:** C/C++, Java, Python, HTML, CSS, JavaScript, SQL
**Frameworks:** PyTorch, DeepSpeed, vLLM, SGLang, verl, OpenRLHF
**Tools:** Git, Docker, Shell, LaTeX, Markdown
**Languages:** English (Fluent, TOEFL 113), Chinese (Native)