

Yanru Guan

piscesguan@stu.pku.edu.cn | linkedin.com/in/yanruguan | yanruguan.github.io

Education

Peking University — School of Electronic Engineering & Computer Science (EECS) <i>B.Sc. Computer Science & Technology · Turing Class · GPA: 3.913 / 4.000</i>	Aug 2023 – Jun 2027 (exp.) Beijing, China
Carnegie Mellon University — School of Computer Science <i>Exchange Student · GPA: 4.0 / 4.0 · Dean's List with High Honors</i>	Jan 2026 – May 2026 Pittsburgh, PA
No. 2 High School of East China Normal University <i>High School · Distinguished Graduation (top 10 / 400)</i>	Aug 2020 – Jun 2023 Shanghai, China

Research Experience

DaGAME Lab, Peking University — Research Intern <i>Advisor: Prof. Xiaotie Deng</i>	Oct 2023 – Present
<ul style="list-style-type: none">Computational economics and algorithmic game theory, with a focus on mechanism design, information elicitation, pricing in digital markets, and strategic behavior in automated bidding.	
Microsoft Research Asia (MSRA) — Research Intern <i>Mentor: Dr. Yuhui Yuan</i>	Dec 2024 – Mar 2025
Course Project: Numerical Methods — Principles, Algorithms & Applications <i>Advisor: Prof. Tiao Lu</i>	May 2024
<ul style="list-style-type: none">Built a neural-network-based financial trading model; conducted live trading and presented one-year performance at the following year's seminar.	
Conference Reviewer	
<ul style="list-style-type: none">IEEE Symposium on Foundations of Computer Science (FOCS) 2024AI for Mechanism Design and Strategic Decision Making (AIMS), ICLR 2026 Workshop	

Publications & Manuscripts

- [1] Yanru Guan, Jiahao Zhang, Zhe Feng, Tao Lin. *On the Coordination of Value-Maximizing Bidders*. **ICML 2026**. [arXiv:2511.04993]
Also accepted by **2026 Marketplace Innovation Workshop**
- [2] Ningyuan Li*, Yanru Guan*, Xiaotie Deng, Zihe Wang, and Jie Zhang. *Selling Data as a Digital Good with Scaling Valuations*. **ICML 2026**. [openreview]
Also accepted by **ICLR 2026 Workshop AIMS**
- [3] Xiaotie Deng, Yanru Guan, Ningyuan Li, Zihe Wang and Jie Zhang (alphabetical). *Ex-Ante Truthful Distribution-Reporting Mechanisms*. **WINE 2025** (Conference on Web and Internet Economics), Rutgers U., 2025. [arXiv:2507.04030]

Invited Talks & Presentations

Harvard University EconCS Seminar – <i>Ex-Ante Truthful Distribution-Reporting Mechanisms</i>	May 2026
Northwestern University CS Theory Seminar – <i>Ex-Ante Truthful Distribution-Reporting Mechanisms</i>	Mar 2026
Carnegie Mellon University EconCS Seminar – <i>Ex-Ante Truthful Distribution-Reporting Mechanisms</i>	Feb 2026
WINE 2025, Rutgers University – <i>Improved Budget-Feasible Mechanisms for Submodular Valuations</i>	Dec 2025
China IOI 2026 Training Camp – <i>Personal growth journey & reflections</i>	Dec 2025
Asia-Pacific Informatics Olympiad (APIO) 2024 – <i>Probability Theory and Probabilistic Methods</i>	May 2024

Teaching & Professional Services

Teaching Assistant, CMU 15-451: Algorithm Design and Analysis (Prof. Yang Liu & Richard Peng)	Jan – May 2026
Trainer & Guest Commentator, ICPC North America Programming Camp (NAPC) + ICPC Live	Mar 2026
Teaching Assistant, PKU 04831760: C/C++ Programming Practice (Honor Track) (Prof. Shaofeng Jiang)	Feb – Jun 2025
External Coach, Shandong Provincial Informatics Olympiad Training Camp	2023 – 2024
Author, “Women are equally outstanding as men”, CCF NOI 40th Anniversary Commemorative Collection (pp. 226–228)	Mar – Jun 2024
Contributor, <i>Informatics Olympiad Dictionary</i> (official guidebook, China Computer Federation)	2022 – 2023

Honors & Awards

Research Awards

- HuanYu Information Quest Award, EECS, Peking University Dec 2025
- Rising Star in Computer Science Research, School of CS, Peking University Nov 2025
- Outstanding Student, Center on Frontiers of Computing Studies (CFCS) Dec 2024

Scholarships

- **May Fourth Scholarship** (highest-level university scholarship, Peking University) Sep 2025
- **National Scholarship** (highest honor for undergraduates in China, top 0.5%) Sep 2024
- Merit Student, Peking University Sep 2024
- Freshman Scholarship & Dean’s Freshman Scholarship, EECS, Peking University Sep 2023

Competitive Programming (Selected)

- **Silver Medal, 5th Place**, The 2025 ICPC World Finals Sep 2025
- First Prize, UBIQuant Peking University Programming Contes May 2025
- Gold Medal, The 2024 ICPC East-Asia Continent Final Contest Dec 2024
- Second Place, The 2024 ICPC Asia Kunming Regional Contes Dec 2024
- Champion, The 2024 ICPC Asia Hangzhou Regional Contest Nov 2024
- Second Place, 2024 China Collegiate Programming Contest, Jinan Site Oct 2024
- Champion, TuSimple National Invitational College Programming Contest May 2024
- Gold Medal, The 9th China Collegiate Programming Contest (CCPC) Final Contest Mar 2024
- Gold Medal, The 2023 ICPC East-Asia Continent Final Contest Jan 2024
- Champion, The 2023 ICPC Asia Jinan Regional Contest Dec 2023
- Champion, 2023 China Collegiate Programming Contest (Shenzhen) Nov 2023
- Champion, TuSimple National Invitational College Programming Contest Apr 2023
- **Gold Medal, Best Female Player**, National Olympiad in Informatics (NOI) Aug 2022

Technical Skills

- **Programming:** C++ (expert, 10+ years), Python, Matlab, Haskell, Agda, OCaml, \LaTeX
- **Languages:** Chinese (native), English (TOEFL 113/120, Speaking 29)