

Yixuan Wang (Roy)

roywangyx@pku.edu.cn | (86) 18800170920

Peking University, No.5 Yiheyuan Road Haidian District, Beijing, P. R. China 100871

EDUCATION BACKGROUND

Peking University

School of Mathematics, Peking University, Beijing, China 2016—2020
Elite Undergraduate Training Program in Applied Math and in Pure Math
Overall GPA: **3.84/4**, Rank: 7/200, Major GPA: **3.91/4**, GRE (**166+170+4.5**), TOEFL (**112**)
Graduation Date: 2020.07 **Summa Cum Laude in Beijing**

Summer Intern at **Caltech** on multiscale problems, supervised by Prof. Thomas Yizhao Hou 2019

California Institute of Technology

Future Graduate Student of Program of Applied + Computational Mathematics, 2020.09—
Department of Computing + Mathematical Sciences, Caltech, Pasadena, California

EXPERIENCE

Janestreet

Quant Trader Intern(HK) 2020.6-2020.9

PUBLICATIONS

- R. Li, Y.L. Wang and **Y.X. Wang***. (2020) Approximation to Singular Quadratic Collision Model in R. Li, Y.L. Wang and **Y.X. Wang***. (2018) Approximation to Singular Quadratic Collision Model in Fokker-Planck-Landau Equation, SIAM Journal on Scientific Computing, 42(3), 2020, pp. B792-B815. *co-first author
- Y. Chen, T.Y. Hou and **Y. Wang***. (2020) Exponential Convergence for Multiscale Linear Elliptic PDEs via Adaptive Edge Basis Functions. Submitted to Multiscale Modeling and Simulation. *co-first author
- Z. Liu, S. Qian, **Y. Wang***, Y. Yan and T. Yang. (2020) Schrödinger PCA: You Only Need Variances for Eigenmodes. Submitted to NeurIPS. *co-first author

INVITED TALKS

- Model reduction for FPL equation, Forum of elite Ph. D. program, Peking University, November 2018
- Hermite spectral method for kinetic equations, CSAIM's students' forum, Tsinghua, December 2018
- Oversampling edge basis for Helmholtz equations, CSAIM's annual meeting, Foshan, September 2019
- Multiscale basis for Helmholtz equation with rough coefficients and high frequency, Workshop on Complex Fluids, CSRC, November 2019

AWARDS AND HONORS

- Silver Award at 56th International Mathematical Olympiad, 2016
- All Three 2nd Places in Analysis, Applied Math, and Overall Individual Competitions, S.-T. Yau College Mathematics Contests, 2019
- 1st Place in Team Competition, S.-T. Yau College Mathematics Contests, 2019
- 1st Prize in National University Math Competition, 2017
- 1st Prize in National University Math Modeling Competition, 2017
- 1st Place in Citadel Datathon, China, 2018
- Best Poster for Science Challenge Project Conference, 2018
- National Scholarship, 2017-2018
- Representative of National Scholarship, 2018-2019 (At most one student per school)
- PKU Person of the Year, 2019 (Ten students at PKU in total, only two are undergrads)
- PKU May 4th-Award, 2020 (Ten students at PKU in total, only two are undergrads, given every two years)

PERSONAL INFORMATION

- GRE (**166+170+4.5**), TOEFL (**112**)
- Proficient in Python, MATLAB, C, and C++
- Proficient in Chinese and English, fluent in French, and a beginner in Spanish, German, and Cantonese