Yixuan Wang (Roy)

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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, Department of Computing + Mathematical Sciences, Caltech, Pasadena, California 2020.09—

EXPERIENCE

Janestreet

Quant Trader Intern(HK)

2020.6-2020.9

PUBLICATIONS

- 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