Lyu Liyao

吕力遥

Personal Data

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Education Experience

Sept. 2016 - Present	*Soochow University, Suzhou, China*
'	**Bachelor of Science(BS)**: Mathematics
	Grade Point Average (GPA): 3.7/4.0 (Rank: Top 20%)
Jan. 2019 - May. 2019	*University of California Berkeley, CA, USA*
	Exchange Student
Sep. 2020 - Present	*Michigan State University, MI, USA*
	Phd Student

Research Experience

Aug. 2019 - Nov. 2019	*University of Massachusetts Dartmouth, MA, USA*
'	Advised by Mathematical Science Professor Dr. Zheng Chen
	Local Discontinuous Galerkin Method for Fractional Diffusion Equation
Jul. 2019 - Aug. 2019	*Hong Kong University of Science and Technology, HK, China*
	Advised by Mathematical Sciences Professor Dr. Yang Xiang
March. 2018 - March. 2020	*Soochow University, Suzhou, China*
	Advised by Mathematical Sciences Professor Dr. Jingrun Chen
	Estimate the Exciton Diffusion Length of Organic Semiconductors
	Funded By: Undergraduate Training Program for Innovation and Entrepreneurship, Soochow University

LEADERSHIP EXPERIENCES AND ACTIVITIES

Jul. 2018 - Jul. 2019	**Soochow University, CW Chu College, Suzhou, China** **President of Students' Association for Science and Technology** Organized approximately 50 oral defenses annually for undergraduates' research projects in the college Organized technical culture festival with over four hundred undergraduates and some local citizens participate Awarded with outstanding Students' Association for Science and Technology during the period.

SCHOLARSHIPS AND CERTIFICATES

2018	Outstanding Leadership Scholarship
2018	Second Prize in Contemporary University Mathematical Contest in Modeling (top 3%)
2017	Third Prize in Chinese Mathematics Competitions
2017	Academic Excellence Award (top 10%)
2016	Second Prize in Freshmen Debate Competition

PUBLICATION

Liyao Lyu, Zheng Chen.2020. "Local discontinuous Galerkin methods with novel basis for fractional diffusion equations with non-smooth solutions." Communications on Applied Mathematics and Computation. 10.1007/s42967-020-00104-3

Shi Jin, Jingrun Chen, **Liyao Lyu**.2020."A consensus-based global optimization method with adaptive momentum estimation" Arvix.

Liyao Lyu, Zheng Chen.2020."Local discontinuous Galerkin methods with novel basis for fractional diffusion equations with non-smooth solutions". 2020. Communications on Applied Mathematics and Computation.

Liyao Lyu, Keke Wu, Rui Du*, Jingrun Chen*.2020. "Enforcing exact boundary and initial conditions in the deep mixed residual method." Arxiv.

Liyao Lyu, Zhen Zhang , Minxin Chen*, Jingrun Chen*. 2020. "MIM: A deep mixed residual method for solving high-order partial differential equations." Arxiv.

Chen, Jingrun, Rui Du, Panchi Li, and **Liyao Lyu** . 2020. "Quasi-Monte Carlo sampling for machine-learning partial differential equations" Numerical Mathematics Theory Methods and Applications.

Liyao Lyu , Zhiwen Zhang*, and Jingrun Chen*. 2020. "A Qmc-Deep Learning Method for Diffusivity Estimation in Random Domains." Numerical Mathematics Theory Methods and Applications.