

Yan Huang

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Research Interests	Numerical Methods for Kinetic Equations, Gradient Flows, Optimal Transport, Deep Learning, Scientific Machine Learning.	
Education	University of Minnesota Twin Cities <i>Ph.D. in Mathematics</i>	Minneapolis, MN, USA Aug. 2023 -
	Southern University of Science and Technology <i>B.S. in Mathematics and Applied Mathematics</i> Honors Program in Mathematics	Shenzhen, China Aug. 2019 - Jun. 2023
Publications	[1] Y. Huang, L. Wang, A score-based particle method for homogeneous Landau equation, submitted, https://arxiv.org/abs/2405.05187 .	
Research Projects	Acceleration of Variable Frequency Fourier Transform	Summer 2022 Developed an acceleration algorithm for computing variable frequency Fourier transform with Prof. Zhen Zhang at SUSTech.
Conference Attending	<ul style="list-style-type: none">• PDEs of incompressible fluid flows, computer assisted proofs and neural networks, UMN, Apr. 12, 2024.• Computational Challenge and Optimization in Kinetic Plasma Physics, IMSI, Feb. 19-22, 2024.• New Trends in Kinetic and Optimal Transport, UMN, Oct. 25-27, 2023.	
Teaching	School of Mathematics, UMN <ul style="list-style-type: none">• Teaching Assistant, MATH 1272 Calculus II• Teaching Assistant, MATH 1271 Calculus I	Spring 2024 Fall 2023
	Department of Mathematics, SUSTech <ul style="list-style-type: none">• Grader, MA327 Differential Geometry	Spring 2022
Awards	<ul style="list-style-type: none">• SUSTech Excellent Undergraduate Thesis.• SUSTech Second Class of the Merit Student Scholarship, 2021 & 2022.• First Class Award of the 13th National College Students Mathematics Competition.	
Skills	Programming: Python, PyTorch, Matlab, Java.	
	Language: Chinese (native), English (professional).	