Hao Chen

CONTACT INFORMATION	West Lafayette, IN, USA Google Scholar	Homepage	chen4433@purdue.edu Linkedin	
EDUCATION	Purdue University, West Lafayette, In Ph.D. in Chemical Engineering Research advisor: Dr. Can Li		2022 - Present	
	Research expertise: Machine Learning and Mathematical Optimization			
	University of Cambridge , Cambridge M.Phil. in Chemical Engineering and		2020 - 2021	
	University of Nottingham, Nottingham	am, UK		
	B.Eng. in Chemical Engineering		2016 - 2020	
APPOINTMENTS	Cornell Tech, Cornell University, Ne	w York, NY	TBD 2025	
	Visitor researcher		Prof. Andrea Lodi's Lab	
PUBLICATIONS	 [1] Chen, H., Constante-Flores, G., Li, C. Physics-informed neural networks with hard line equality constraints. <i>Computers & Chemical Engineering</i> 189, 108764. (2024). [2] Chen, H., Constante-Flores, G., Li, C. Diagnosing Infeasible Optimization Problems Usin Large Language Models. <i>INFOR: Information Systems and Operational Research</i>, 1–15. (2024) 			
	[3] Yan, Y., Shin, W.I., Chen, H. et al. A recent trend: application of graphene in catalysis. <i>Carbon Lett.</i> 31, 177–199 (2021).			
CONFERENCE PRESENTATIONS	-1 -1 -1 - D			
	Chen, H. 2024. Physics-Informed Neural Networks with Hard Linear Equality Constraints. Paper presented at the 2024 AIChE Annual Meeting, San Diego, CA			
	Chen, H. 2024. Diagnosing Infeasible of presented at the 2024 AIChE Annual N		ge Language Models. Paper	
HONORS AND AWARDS	Purdue Graduate Student Governmen	nt (PGSG) Travel Grants	2024	
	Graduate Student Travel Grants, Scho	ool of Chemical Engineering, Purd	ue University 2024	
	Nottingham Engineering Excellence S	Scheme (Top 1.0%), University of N	Nottingham 2019	
	British Petroleum Prize, University of	Nottingham	2019	
	Provost's Scholarship (Top 1.5%), Uni	versity of Nottingham	2018	
	Dean's Scholarship (Top 10%), Univer	sity of Nottingham	2017	

Research Mentoring	Zachary Rasmussen (Undergraduate from Utah)	2024 - Present
	Rahul Golder (Undergraduate from IIT)	2023 - 2024
	Soumick Sarker (Undergraduate from IIT)	2023 - 2024
TEACHING EXPERIENCE	Statistical Modeling and Quality Enhancement (CHE-32000), TA Momentum Transfer (CHE-37700), TA	Fall 2024 Fall 2023
SKILLS	 Programming: Python, Julia Frameworks: NumPy, Pandas, PyTorch, SciPy, TensorFlow Toolbox: Linux, vim, git 	