Basic Information	Tianzhi Li Email (Peking Univ.) : tlee@stu.pku.edu.cn Email (Nanyang Technological Univ.) : n2409573c@e.ntu.edu.sg Address : 21 Nanyang Link, SPMS, Singapore 637371	
	Tianzhi Li received his B.Sc. in Mathematics, under the supervision of Prof. Donghua Shi, from Beijing Institute of Technology (BIT) in 2021. He is now a PhD student of Peking University. Also, from Dec. 2024, he has been a visting student under the supervision of Prof. François Gay-Balmaz at Nanyang Technological University (NTU) in Singapore.	
	His research interest lies at the intersection of geometric mechanics, stochastic nonholonomic mechanics, and physics-informed learning.	
Education	- Nanyang Technological University Visiting Ph.D. student (Supervisor : Prof. François Gay-Balm	Dec. 2024 - Present aaz)
	- Peking University Ph.D. student (Supervisor : Prof. Jinzhi Wang)	Sept. 2021 - Present
	- Beijing Institute of Technology Bachelor of Science (Supervisor : Prof. Donghua Shi)	Sept. 2017 - June 2021
Publications	Papers	
	• T. Li & Wang, J., Variational Unscented Kalman Filter on Matrix Lie Groups, Automa- tica, 172 :111995, 2025. (Regular Paper)	
	• T. Li , R. Fu, & J. Wang, Reduced Dynamics and Geometric Optimal Control of None- quilibrium Thermodynamics : Gaussian Case, Automatica , 164 :111626, 2024. (Regular Paper)	
	• T. Li & J. Wang, Multisymplectic Unscented Kalman Filter for Geometrically Exact Beams, Proceedings of Geometric Science of Information 2023 (GSI). Lecture Notes in Computer Science 14072, pp. 60-68, Springer Verlag.	
	• T. Li & J. Wang, A Physics-Informed Gaussian Process Regression Algorithm for the Dy- namics of the Planar Pendulum, 2023 42nd IEEE Chinese Control Conference (CCC), Tianjin, China, 2023, pp. 5163-5167.	
	• T. Li & J. Wang, A Structure-Preserving Learning Scheme on SO(3), 2024 43rd IEEE Chinese Control Conference (CCC), Kunming, China, 2024, pp. 5149-5152.	
	Patents	
	 UAV-Att : An Unmanned Aerial Vehicle Attitude Estimation Software, 2023 (Registration Number : 2023SR0335469). SatAtt-Pre : A Gaussian Process-Based Satellite Attitude Prediction Software, 2024 (Re- gistration Number : 2024SR0348461). 	
Presentations	 Multisymplectic Unscented Kalman Filter for Geometrically Exact Beams. at the International Conference on Geometric Science of Information (GSI), Saint-Malo, France, September 2023. 	
	♦ Geometric Structures and Optimal Control of Gaussian Distributions. at Workshop on Multibody System Dynamics (Organized by Prof. Qiang Tian and Prof. Haiyan Hu), April 2024.	
	◊ Stochastic Nonholonomic Variational Principle at Geometric Mechanics Seminar (Organized by Prof. Donghua Shi), July 2024.	
Honors and Awards	Academic Excellence Award, Peking University, 2024, 2023 PKU Dean's Scholarship - First Prize, Peking University, 2024 Yuehua Luo Sholarship, Peking University, 2024 Outstanding TA Award (1st rank among all candidates), Peking University, 2023	