

Shahriar Aslani

CONTACT INFORMATION	Chern Institute of Mathematics, Nankai University, Tianjin 300071 China.	s.aslani@pm.me http://www.shahriaraslanimathematics.me
CURRENT AFFILIATION	Chern Institute of Mathematics Postdoctoral fellow, since September 2025. Mentor: Guowei Yu	
PREVIOUS POSITIONS	University of Toronto, Department of Mathematics Postdoctoral fellow and instructor, from September 2022 until August 2025. Mentor: Ke Zhang	
RESEARCH DOMAINS	Hamiltonian Dynamics, Sub-Riemannian Geometry.	
EDUCATION	PSL Research University, École Normale Supérieure, Département de Mathématiques et Applications (DMA) Ph.D. in Mathematics, defended in June 2022 Dissertation Topic: Bumpy metric theorem in the sense of Mañé for Hamiltonian vector fields Advisor: Patrick Bernard	
	Sharif University of Technology, Department of Mathematical Sciences M.S. in Mathematics, defended in July 2018 Dissertation Topic: Analysis and differential equations on Fractals. Advisor: Alireza Ranjbar-Motlagh	
PUBLICATIONS	Shahriar Aslani, Ke Zahng, <i>Bumpy metric theorem for co-rank 1 sub-Riemannian and reversible sub-Finsler metrics</i> , Journal of Modern Dynamics , to appear in 2026. Shahriar Aslani, <i>Normal singular geodesics of a conformally generic sub-Riemannian metric</i> , Nonlinearity , Volume 38 Issue 12, 2025. Shahriar Aslani, Patrick Bernard, <i>Bumpy metric theorem in the sense of Mañé for non-convex Hamiltonian systems</i> . to appear in Journal of Modern Dynamics , Volume 21, 2025. Shahriar Aslani, <i>Bumpy metric theorem in the sense of Mañé for Hamiltonian vector fields</i> , PhD thesis. École Normale Supérieure , June 2022. Shahriar Aslani, Patrick Bernard, <i>Normal forms near orbit segments of convex Hamiltonian systems</i> . International Mathematics Research Notices , Volume 2022, Issue 11, June 2022.	
EDITORIAL ROLES	Academic Editor, Journal: <i>Advances in Mathematics</i> .	
ADMINISTRATIVE ROLES	Fall 2022- Winter 2023 Organizing <i>Dynamics Seminar</i> at the University of Toronto	

TALKS

Normal singular geodesics of a generic sub-Riemannian metric, Queen's University, April 2025.

Bumpy metric theorem for co-rank 1 sub-Riemannian metrics, Dynamics Seminar at the University of Toronto, November 2024.

Bumpy metric theorem for contact structures, Université de Montréal, May 2023.

Closed orbits of a Hamiltonian vector field: A perturbation theorem for linearized Poincare maps and its applications, University of Manitoba, February 2023.

Bumpy metric theorem in the sense of Mañé for non-convex Hamiltonians, Jussieu, geometry and topology seminar, January 2022.

Mañé generic properties of non-convex Hamiltonian systems, Ruhr University Bochum, January 2022.

Normal form on orbits of a Hamiltonian vector field and its application in perturbation theorems, working group on Hamiltonian and symplectic dynamics, Jussieu, October 2021.

Geometric control methods in the study of Mañé perturbations of the linearized Poincare maps, Moscow seminar of geometric theory of optimal control, April 2021. (Virtual)

Local normal form on orbits of a convex/non-convex Hamiltonian vector field, séminaire des doctorants d'Analyse d'Orsay, March 2021.

TEACHING

Summer 2025 Coordinator, Linear Algebra I, University of Toronto

Winter 2025 Coordinator, Differential Equations, University of Toronto

Fall 2024 Coordinator, Vector Calculus, University of Toronto

Summer 2024 Coordinator, Linear Algebra I, University of Toronto

Winter 2024 Reading Course: Symbolic Dynamics and its applications, University of Toronto

Winter 2024 Instructor, Linear Algebra II, University of Toronto

Fall 2023 Coordinator, Differential Equations, University of Toronto

Summer 2023 Coordinator, Multivariable Calculus, University of Toronto

Spring 2023 Instructor, Linear Algebra II, University of Toronto

Fall 2022 Instructor, Introduction to Mathematical Proofs, University of Toronto

Spring 2022 Teacher Assistant, Analyse 2, PSL University-Dauphine University.

Spring 2018 Teacher Assistant, Multivariable Calculus, Sharif University of Technology.

Fall 2018 Teacher Assistant, Calculus 1, Sharif university of technology.

Spring 2017 Teacher Assistant, Multivariable Calculus, Sharif University of Technology.

VISITS

June 2025 University of Fribourg, Fribourg, Switzerland

June 2025 Université Laval, Quebec City, Canada

April 2025 Queen's University, Kingston, Canada

May 2023 Université de Montréal, Montréal, Canada

February 2023 University of Manitoba, Winnipeg, Canada

January 2022 Ruhr University, Bochum, Germany

October 2020 J.A.Dieudonné laboratory, Nice, France.