Shahriar Aslani

Contact Information	Department of Mathematics, University of Toronto, 40 St. George Street, Toronto, Ontario, Canada M5S 2E4	shahriar.aslani@math.toronto.edu http://www.shahriaraslanimathematics.me		
	Offices: PG Building 307B. UTM, Deerfield Hall 3097B.			
AFFILIATION	University of Toronto, department of mathematics Postdoctoral fellow and course instructor. Advisor: Ke Zhang			
Research Interests	Hamiltonian dynamics, sub-Riemannian Geometry, Weak KAM theory			
Education	PSL research university, École normale supérieure, département de mathématiques et applications (DMA)			
	Ph.D. in Mathematics, defended on June 2022			
	Dissertation Topic: Bumpy metric theorem in the sense of Mañe for non-convex Hamiltonian systems Advisor: Patrick Bernard			
	Sharif university of technology, department of mathematical sciences			
	M.S. in Mathematics, defended on July 2018			
	Dissertation Topic: Analysis and differential equations on Fractals. Advisor: Alireza Ranjbar-Motlagh			
Publications	Shahriar Aslani, Patrick Bernard, <i>Bumpy metric theorem in the sense of Mañe for non-</i> convex Hamiltonian systems. Submitted to the Journal of Modern Dynamics, January 2022			
	Shahriar Aslani, Patrick Bernard, Normal forms near orbit segments of convex Hamil- tonian systems. International Mathematics Research Notices, January 2021.			
Talks	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.		
	On Bumpy metric theorem in the sense of Mañé, IPM youth seminar in topology and daynamics, June 2021. (Virtual)		
	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, semi- naire des doctorants d'Analyse d'Orsay, March 2021.		
	A local normal form on regular orbits of a Hamiltonian vector field and its applica- tions, reunion's day of Analysis team in ENS Paris, September 2020.		
Honors and Awards	2018-2021	Marie Sklodowska-Curie grant of European Union's Horizon re- search and innovation program.	
	2018-2021 Doctoral fellowship, Foundation Sciences Mathématiques		
Teaching	Summer 2024	Coordinator, Linear Algebra I, University of Toronto	
Experience	Winter 2024	Adviser, 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 Proof, 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	May 2023 February 2023 January 2022 October 2020 May 2018	Université de Montréal, Montréal, Canada University of Manitoba, Winnipeg, Canada Ruhr University, Bochum, Germany J.A.Dieudoné laboratory, Nice, France. École normal supérieure, Paris, France.	

LANGUAGES

English: French: Persian: Fluent Professional proficiency Native