Ahmad Mokhtar - CV

Graduate Student & Sessiona Department of Mathematics		l Instructor	Email: ahmad_mokhtar@sfu.ca	
Simon	Fraser University, Can	ada	Webpage: ahmad-mokhtar.github.io	
Education	Ph.D. in Mathematics, Simon Fraser University, Canada (2020-current) Field: Algebraic Geometry Supervisor: Dr. Nathan Ilten M.Sc. in Mathematics, Simon Fraser University, Canada (2018-2020) Field: Algebraic Geometry M.Sc. Thesis: Toric degenerations of rational curves of degree $n + 2$ in \mathbb{P}^n Supervisor: Dr. Nathan Ilten			
	M.Sc. in Mathematics, Shiraz University, Shiraz, Iran (2016-2018) Field: Coding Theory Supervisor: Dr. Shohreh Namazi			
	B.Sc. in Electrical Engineering, Shiraz University, Shiraz, Iran (2007-2011) Field: Telecommunications			
Interests	Algebraic geometry, Fano schemes, Toric degenerations, Computational algebraic geometry			
Honors	The certificate "With Distinction" for Master's thesis (Simon Fraser University) First rank in GPA in B.Sc (among co-entry students, Shiraz University) First rank in GPA in M.Sc (among co-entry students, Shiraz University) 21st rank in Iran's National University Entrance Exam for Graduate Studies in Math (2014) 18th rank in Iran's National Olympiad in Electrical Engineering (2010) First rank in Iran's National Programming Contest for high school students (2006)			
Awards	SFU Graduate Dean's Entrance Scholarship: \$84,000 (2018-2022) PhD Research Scholarship: \$5,400 (2023-2024)			
Teaching	Instructor:	Calculus, Geometry, A Im. Hossein High Sch), Simon Fraser University, Canada (Spring 2023) Algebra & Probability pol, Hormozgan, Iran (2014-2016) , Hormozgan, Iran (2014-2016)	
	Teaching Assistant:	Galois Theory, Spring Algebra Workshop, Fa Commutative Algebra Applied Calculus Wor	ll 2020 and Algebraic Geometry, Spring 2020	
Publication	A Malthan Fana achemics of summatric matrices of hounded reply an View 2210, 07025 (2022)			

Publication A. Mokhtar. Fano schemes of symmetric matrices of bounded rank. arXiv:2310.07025. (2023).

	N. Ilten, A. Mokhtar. Khovanskii-finite rational curves of arithmetic genus 2. Michigan Math. J. 73 (2023), no. 5, 1059–1082.			
	B. Ahmadi, M. H. Shirdareh Haghighi, A. Mokhtar. Perfect quantum state transfer on the Johnson scheme. <i>Linear Algebra and its Applications</i> . 584 , 326–342 (2020).			
Talks	Khovanskii-finite rational curves of arithmetic genus 2, SIAM Conference on Applied Algebraic Geometry (AG23), Eindhoven University of Technology, Jul 2023			
	Fano schemes of singular symmetric matrices, University of British Columbia AG seminar, Mar 2023			
	Fano schemes of singular symmetric matrices, Simon Fraser University NTAG seminar, Feb 2023			
Services	Intro to moduli spaces through Grassmannians and Fano schemes, SFU gradie NTAG seminar, Jan 2023			
	Fano schemes of singular symmetric matrices (short talk), Banff International Research Station, Dec 2022			
	Toric degenerations of quintic rational space curves, Simon Fraser University NTAG seminar, Jan 2020			
	Toric degenerations of quintic rational space curves, 2nd Biennial Meeting of SIAM Pacific Northwest Section, Seattle University, Oct 2019 (canceled due to visa issues)			
	Co-organizer of the SFU graduate seminar in algebraic geometry (gradieNTAG), since 2023, Simon Fraser University, Canada			
	Co-organizer of the 5-minute talk session in the <i>Toric Degenerations</i> workshop, Dec 2022, Banff International Research Station (BIRS), Canada			
	Organizer, Problem solving workshop (part of Simons Semester), Fall 2018, Banach Center, Warsaw, Poland			
	Volunteer tutor at Native Education College, Summer 2022, Vancouver, Canada			
	Tutor, SFU Academics First (tutoring services for athletes), 2022, Canada			
	Steward in the Teaching Support Staff Union (TSSU), 2019–2023, Canada			
Skills	Programming in C/C++, Java, Macaulay2, Magma, Maple, MATLAB			
Languages	Persian (native), English, French			