

EMPLOYMENT	Università Bocconi <i>Postdoc, funded by ERC Project ANGEVA</i> • Mentor: Antonio De Rosa	Milan, Italy Sep 2025-Aug 2027
EDUCATION	Courant Institute of Mathematical sciences, New York University <i>Ph.D. in Pure Mathematics</i> • Advisors: Guido De Philippis & Fang-Hua Lin • Research area: Geometric measure theory & Partial Differential equations Department of Mathematics, Sharif University of Technology <i>B.S. in Mathematics</i> • Advisor: Morteza Fotouhi	New York, NY Sep 2020 - May 2025 Tehran, Iran 2015 - 2019
PUBLICATIONS	<ol style="list-style-type: none"> 1. Guido De Philippis, Aria Halavati, Alessandro Pigati. Decay of excess for the abelian Higgs model. <i>Preprint</i>, 2024. 2. Aria Halavati. Quantitative stability of Yang-Mills-Higgs instantons in two dimensions. <i>Arch Rational Mech Anal</i> 248-(88), 2024. 3. Aria Halavati. New weighted inequalities on two-manifolds. <i>Preprint</i>, 2023. 	
INVITED AND UPCOMING TALKS	University of Toronto student PDE seminar Online Courant Geometric analysis seminar New York, NY Cornell Analysis seminar Ithaca, NY Virtual Analysis and PDE seminar, hosted by UC Irvine Online Stanford Geometry seminar Stanford, CA UC San Diego Geometry seminar San Diego, CA MIT Analysis seminar Boston, MA Princeton DGGA Seminar Princeton, NJ UT Austin Analysis seminar Austin, TX cSplash, Courant Institute New York, NY UNAM Juriquilla, Queretaro, Mexico Scuola Normale Superiore di Pisa Pisa, Italy	14 Feb 2024 6 Sep 2024 9 Sep 2024 3 Oct 2024 16 Oct 2024 31 Oct 2024 12 Nov 2024 26 Feb 2025 12 Mar 2025 5 Apr 2025 6-8 Aug 2025 5-7 Nov 2025
WORKSHOPS AND CONFERENCES	Oberwolfach PDE workshop 2330 (invited) Germany Joint Mathematics meeting 2024 San Fransisco, CA SLmath - Recent progress on geometric analysis and Riemannian geometry (funded) Berkeley, CA SLmath - Geometry and analysis of special structures on manifolds (funded) Berkeley, CA	23-29 July 2023 3-6 Jan 2024 21-25 Oct 2024 18-22 Nov 2024

AWARDS AND HONORS	• Peter Lax Fellowship , Awarded to an outstanding PhD student, Courant Inst.	2022
	• First Prize , International Mathematical Competition, UCL.	2017
	• Gold Medal , International Mathematical Olympiad.	2015
	• Gold Medal , Iran's National Mathematical Olympiad.	2014
ACADEMIC SERVICES	Reviewer for: <i>Canadian Journal of mathematics,</i> <i>Journal of Functional Analysis,</i> <i>Ann. Inst. Henri Poincare, Anal. Non Lineaire.</i>	
	Co-organized: <i>Courant's Graduate Student/Postdoc seminar,</i> <i>Social chapter of Courant student organization,</i> <i>A social climate survey administered for Courant's students feedback,</i> <i>A geoemtric measure theory reading group at Courant.</i>	
TEACHING	SLmath, Berkeley. Teaching Assistant for a summer school:	
	• Titled <i>Special Geometric Structures and Analysis</i> (St. Mary's College)	17-28 July 2024
	• An introduction to geometric measure theory.	
	Courant Institute of mathematical sciences, NYU. Teaching Assistant:	
	• Calculus 1	Fall 2019 & Fall 2021
	• Math for Econ	Spring 2020
	• Grea Ideas in math for non-math majors	Spring 2020
	• Linear Algebra	Fall 2022 & Spring 2025
	• Probability and Statistics	Spring 2022
	• Analysis	Fall 2023 & Spring 2024 & Fall 2024
	Young Scholar's club, Tehran, Iran.	
	• Tutoring Iran's IMO team	2016
	Kerman, Iran.	
	• Math classes for students in my hometown. (7 national and 1 IMO medal from my class)	
	2014-2015	
SKILLS	Languages: Persian, English.	
	Programming: Python-Tensorflow-Pytorch, C++, MATLAB.	
	Music: Piano, Setar, Guitar, Oud.	