Amirmasoud Geevechi

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Research Interests

Partial Differential Equations, Gauge Theory, Mathematical Physics

Positions

2024-present **Postdoctoral fellow, Beijing Institute of Mathematical Sciences and Applications (BIMSA)**

Mentor: Prof. Shing-Tung Yau

Education

2018-2024 **PhD in Math, University of Toronto, Canada**

Supervisor: Prof. Robert Jerrard

2016-2018 **M.A in Math, UC Santa Barbara, Santa Barbara, U.S.A**
2014-2016 **M.SC. in Pure Math, Sharif University of Technology, Tehran, Iran**
2009-2014 **B.SC. in Mathematics, Sharif University of Technology, Tehran, Iran**

Publication

"Adiabatic approximation of Abelian Higgs models", with Robert Jerrard, Submitted, 2025. arXiv:2512.12525
"A Gluing problem for a gauged hyperbolic PDE", PhD Thesis, 2024. arXiv:2405.16092

Talks:

University of Science and Technology of China (USTC), Hefei, PDE seminar, June 2025
International congress of Chinese mathematicians ICCM 2024, January 2025
Beijing Institute of Mathematical Sciences and Applications (BIMSA), Differential Geometry seminar, December 2024
Beijing Institute of Mathematical Sciences and Applications (BIMSA), General Relativity seminar, September 2024
McMaster University, PDE seminar, Mar 2024
University of Leeds, Geometry seminar, Feb 2024

Honors & Awards

Connaught International Scholarship, University of Toronto, 2018-2023
Department of Mathematics Raymond L. Wilder Award, UC Santa Barbara, 2017
1st rank in Iran National Mathematical Olympiad for University students, 2014
3rd rank in the Entrance exam for Master degree (Iran), 2014
Recipient of Iran National Elite Foundation Scholarship, 2009-2011
Silver medal in IMO 2009 (International Mathematical Olympiad , Germany , Bremen)
Gold medal in Iran National Mathematical Olympiad, 2008
Gold medal in Iran National Mathematical Olympiad, 2007
Silver medal in Iran National Mathematical Olympiad, 2006

Services

Administrative Tasks at the Beijing Institute of Mathematical Sciences and Applications (BIMSA), 2024-Present

Co-organizer of the Student PDE seminar at the University of Toronto, academic year 2023-2024