Ciprian Manolescu

Curriculum Vitae

Stanford University
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Research Interests

Low-dimensional topology, symplectic geometry, gauge theory. Particular interests: Floer homology and its applications to knots, 3-manifolds, and 4-manifolds; the Seiberg-Witten equations; Khovanov homology and categorification

Education

Ph.D. in Mathematics, Harvard University, June 2004
Thesis: *A spectrum valued TQFT from the Seiberg-Witten equations*
Advisor: Peter B. Kronheimer

B.A. *summa cum laude* in Mathematics, Harvard University, June 2001

Employment

Professor, Stanford University, 2019-Present

Professor, UCLA, 2012-2019

Associate Professor, UCLA, 2008-2012

Assistant Professor, Columbia University, 2005-2008

Research Fellow, Clay Mathematics Institute, 2004-2008

Veblen Research Instructor, Princeton University and IAS, 2004-2005

Visiting Positions

Clay Senior Scholar, PCMI, June-July 2026

Consultant (AI for math), Google DeepMind, July 2025 - June 2026

Chern Research Professor, SLMath, Berkeley, August-December 2022

Aisenstadt Chair, CRM Montreal, September 2019

Visiting Researcher, KITP Santa Barbara, November 2018

Visiting Researcher, Simons Center for Geometry and Physics, April-May 2013

C.N.R.S. Visiting Researcher, University of Paris 7, June-August 2012

Visiting Research Professor, MSRI, March-April 2010

Royal Society University Research Fellow, University of Cambridge, Spring 2009

Selected Awards, Grants, and Honors

Plenary speaker at the International Congress of Mathematicians, Philadelphia, 2026

Frontiers of Science Awards, ICBS, Beijing, 2024 and 2025

Honorary Doctorate, University of Bucharest, Romania, 2023

Simons Collaboration Grant on New Structures in Low-Dimensional Topology, 2022-2026

Simons Investigator, 2020-2030

AMS E. H. Moore Research Article Prize, 2019

Invited speaker at the International Congress of Mathematicians, Rio de Janeiro, 2018

Honorary member of the Simion Stoilow Institute of Mathematics of the Romanian Academy, 2018

Honorary Doctorate, Babeș-Bolyai University, Cluj-Napoca, Romania, 2018

Fellow of the American Mathematical Society, 2017

FRG: Collaborative Research, NSF grant on "Floer Homotopy Theory," 2016-2019

European Mathematical Society Prize, 2012

Robert Sorgenfrey Distinguished Teaching Award at UCLA, 2011

National Science Foundation grants, 2008-2024, 2026-Present

Royal Society University Research Fellowship (UK), 2008

Clay Research Fellowship, 2004-2008

AMS/MAA/SIAM Frank and Brennie Morgan Prize for Outstanding Research in Mathematics by an Undergraduate Student, 2001

William Lowell Putnam Mathematical Competition, top five (Putnam Fellow): 1997, 1998, and 2000

Three Gold Medals with perfect scores (42 points) at the International Mathematical Olympiad: Toronto, Canada (1995); Bombay, India (1996); Mar del Plata, Argentina (1997)

Selected Invited Lectures

International Congress of Mathematicians, plenary talk, Philadelphia, July 2026

Clay Lectures, Summer School on Quantum Topology and Hyperbolic Geometry, Hanoi, Vietnam, June 2025

International Congress of Basic Science, Beijing, China, July 2024

David Emmanuel Lecture, SSMR, Bucharest, Romania, July 2023

Pacific Rim Mathematical Association Congress, plenary lecture, Vancouver, December 2022

British Mathematical Colloquium (virtually), LMS plenary lecture, April 2021

Maryam Mirzakhani Lecture, AMS-MAA Joint Mathematics Meetings (virtually), January 2021

Aisenstadt Chair lecture series, CRM Montreal, September 2019

International Congress of Mathematicians, geometry and topology sections, Rio de Janeiro, Brazil, August 2018

Myhill Lectures, University at Buffalo, April 2015

Takagi Lectures, University of Tokyo, November 2014

38th Congress of the American Romanian Academy of Arts and Sciences, TED-styled lecture, Pasadena, July 2014

Perspectives in Geometry lecture series, University of Texas at Austin, December 2013

6th European Congress of Mathematics, Krakow, Poland, July 2012

Service

Member of the editorial boards of *Journal of the European Mathematical Society*, *Geometry & Topology*, *Moduli*, *Fixed Point Theory*

Former member of the editorial boards of *Journal of the American Mathematical Society* (2016-2023), *Compositio Mathematica* (2016-2021) and *Selecta Mathematica* (2007-2020)

Chapter editor for *K3: A new problem list in low-dimensional topology* (2023-2024)

Grant reviewer for the *National Science Foundation (US), American Mathematical Society, European Research Council, Research Grant Council of Hong Kong, National Science Center of Poland, Netherlands Organisation for Scientific Research, Swiss National Science Foundation, Hungarian Scientific Research Fund, New Zealand Marsden Fund*

Member of the ICM Topology Panel (2022)

Referee for 21 mathematical journals

Co-organized 15 conferences and workshops

Supervision: 17 postdoctoral researchers, 20 Ph.D. students

Coach of the Stanford team for the Putnam Mathematical Competition (2019-Present)

Coach of the UCLA team for the Putnam Mathematical Competition (2009-2018)

Coach of the Columbia team for the Putnam Mathematical Competition (2005-2007)

Personal

Born on December 24, 1978 in Alexandria, Romania

Dual citizen: Romania and USA