

Ovidiu-Neculai Avadanei

Curriculum Vitae

University of California at
Berkeley-Department of Mathematics
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Date of birth 01/19/1997

Education

2019-present: PhD in Mathematics, University of California at Berkeley, United States of America
Doctoral Advisor: Professor Daniel Ioan Tataru

2016-2019: Bachelor's Degree in Mathematics, "Alexandru Ioan Cuza" University of Iasi, Romania (I graduated with a perfect GPA in a 10 point system, as valedictorian)

2012-2016: Baccalaureate Diploma from "Emil Racovita" National High School, Iasi, Romania, July 2016, with a specialization in Mathematics and Computer Science, and a secondary specialization in the study of the English language (I graduated with a *perfect GPA* in a 10 point system)

Research Interests

Nonlinear dispersive partial differential equations, fluid dynamics

Selected Awards and Grants

Awards

1. **Silver Medal** at the 57th *International Mathematical Olympiad*, July 6-16, 2016, Hong Kong
2. **First Prize** at the 24th *International Mathematics Competition for University Students*, July 31-August 7, 2017, Blagoevgrad, Bulgaria
3. **Silver Medal** at the 33rd *Balkan Mathematical Olympiad*, May 5-10, 2016, Tirana, Albania
4. **Gold Medal and Absolute Champion** at the *South Eastern European Mathematical Olympiad for University Students 2018*, February 27-March 4, 2018, Iasi, Romania
5. **Gold Medal** at *South Eastern European Mathematical Olympiad for University Students 2017*, February 28-March 5, 2017, Ohrid, Macedonia
6. **Bronze Medal** at the 8th "*Romanian Masters of Mathematics*" *International Competition*, February 24-29, 2016

7. **Gold Medals** at the *Romanian National Mathematical Olympiad* in 2015 and 2016
8. **First Prize** at the "*Traian Lalescu*" *National Mathematical Competition for University Students*, May 5-7, 2017, Constanta, Romania

Grants

Fellowship for Young Researchers, awarded by the Ministry of National Education, 2016-2018

Publications and Preprints

1. A. Ai, O. Avadanei, *Well-posedness for the dispersive Hunter-Saxton equation*, to appear in *International Mathematics Research Notices*

Conferences, Workshops, Summer Schools, and Presentations

Contributed Talks

1. *Shanks Workshop on Mathematical Aspects of Fluid Dynamics*, Vanderbilt University, Nashville, Tennessee, USA, February 19-20, 2022

Seminar Talks

1. *Harmonic Analysis and PDE Student Seminar*, UC Berkeley, Berkeley, CA, USA, October 12, 2021
2. *Sesiunea Nationala de Comunicari Stiintifice Studentesti de Matematica*, "Alexandru Ioan Cuza" University of Iasi, Romania, July 4-7, 2019

Conferences attended as participant

1. *Southern California Analysis and Partial Differential Equations*, University of California at San Diego, San Diego, California, USA, November 2-3, 2019
2. *Instruments of Algebraic Geometry*, University of Bucharest, Faculty of Mathematics and Computer Science, September 17-22, 2017, Bucharest, Romania
3. *XIIIème Colloque Franco-Roumain de Mathématiques Appliquées*, "Alexandru Ioan Cuza" University of Iasi, Faculty of Mathematics, August 25-29, 2016

Summer Schools and Workshops

1. *Shanks Workshop on Mathematical Aspects of Fluid Dynamics*, Vanderbilt University, Nashville, Tennessee, February 19-20, 2022
2. *Summer Program in Partial Differential Equations (Virtual Summer Graduate School)*, University of Texas at Austin, Austin, May 17-21, 2021 and May 24-28, 2021

3. ***Introductory Workshop: Mathematical problems in fluid dynamics (Virtual Workshop)***, Mathematical Sciences Research Institute, Berkeley, January 25-February 05, 2021
4. ***Connections Workshop: Mathematical problems in fluid dynamics (Virtual Workshop)***, Mathematical Sciences Research Institute, Berkeley, January 20-22, 2021
5. ***Mathematical problems in fluid dynamics (Virtual Program)***, Mathematical Sciences Research Institute, Berkeley, January 19-May 28, 2021
6. ***Introduction to water waves (Virtual Summer Graduate School)***, Mathematical Sciences Research Institute, Berkeley, July 27-August 07, 2020
7. ***Sesiunea Nationala de Comunicari Stiintifice Studentesti de Matematica***, "Alexandru Ioan Cuza University" of Iasi, July 4-7, 2019
8. ***Scuola Matematica Interuniversitaria***, Universita degli Studi di Perugia, Department of Mathematics and Computer Science, July 23-August 17, 2018, where I attended the "*Commutative Algebra and Geometry*" and "*Introduction to Mathematical Statistics*" courses
9. ***Workshop for Young Researchers in Mathematics***, "Simion Stoilow" Institute of Mathematics of the Romanian Academy (IMAR), May 17-18, 2018
10. ***Instruments of Algebraic Geometry***, University of Bucharest, Faculty of Mathematics and Computer Science, September 11-15, 2017, Bucharest, Romania
11. ***Modern Mathematics Summer School***, Jacobs University, Bremen, Germany, July 1-11, 2017, where we were given introductory lectures in many fields of Mathematics, such as Representation Theory, Modular Forms, and Probability Theory

Internships

February 4, 2017- September 4, 2017: S.C. Gemini CAD Systems, Iasi

Project: CUDA Nesting (a topic in Computational Geometry regarding the irregular stock cutting problem), under the supervision of Mr. Radu Danciu (Software Development Manager)

Miscellaneous

1. **Coordinator (grader)** at the ***59th International Mathematical Olympiad***, Cluj-Napoca, Romania, July 9-14, 2018
2. **Coordinator (grader)** at the ***National Mathematical Olympiad***, Timisoara, Romania, April 19-23, 2017

Other skills

Languages

Romanian (native), English (fluent), German (intermediate)

Computer skills

Working knowledge of C++, MATLAB, Python, L^AT_EX, as well as familiarity with the Microsoft Office Suite

07/22/2022