

Mihai Munteanu

853 Evans Hall, Berkeley, CA 94720
✉ munteanu at math dot berkeley dot edu
🏠 math.berkeley.edu/~munteanu

Education

- 2016–present **PhD in Mathematics**, *University of California at Berkeley, USA*.
Advisor: Michael Hutchings. Research: symplectic geometry.
- 2014–2016 **MA in Mathematics**, *University of California at Berkeley, USA*.
- 2011–2014 **BSc in Mathematics**, *Jacobs University Bremen, Germany*.

Research experience

- 2014–present **Graduate research**, *UC Berkeley*.
Research in symplectic geometry: studying obstructions to embedding problems using SFT techniques.
- 2012–2014 **Undergraduate research**, *Jacobs University Bremen*.
Research in complex dynamics: studying the transcendental dynamics of the $3n + 1$ problem.
math.berkeley.edu/~munteanu/bachelorthesis.pdf
- Summer 2013 **REU, ICERM @ Brown University**.
Research in dynamical systems: studying the outer billiards of a polygonal table in the hyperbolic plane.
arXiv.org/abs/1311.1930
- 2014 **Applied Research**, *Fraunhofer MeVis*.
Research in tumor removal: studying the response of cancerous tumors to electrophoresis using finite element methods in C++.

Teaching experience

- 2014–present **Graduate Student Instructor**, *UC Berkeley*.
Math 1A Calculus: Fall 2014, Fall 2015. Math 1B Calculus: Spring 2015. Math 32 Precalculus: Spring 2016 (lecturer). Math 53 Multivariable Calculus: Summer 2015 (lecturer), Summer 2016 (lecturer), Fall 2016, Fall 2017, Summer 2017 (online). Math 185 Introduction to Complex Analysis: Summer 2018 (lecturer).
- 2016–present **Directed Reading Program Mentor**, *UC Berkeley*.
Supervised reading in smooth manifolds and symplectic geometry.
- 2017–present **Berkeley Math Circle**, *UC Berkeley*.
Giving math olympiad style lectures to children.
- 2012–2014 **Teaching Assistant**, *Jacobs University Bremen*.
General Mathematics: Fall 2011, Spring 2012. Foundations of Mathematics & SAT preparation: Fall 2012. Analysis: Spring 2012, Fall 2013. Stochastic Processes: Spring 2013.

Awards

- College Studienstiftung des Deutsches Volkes, Sparkasse Bremen Scholarship for talent in mathematics, Jacobs Merit Scholarship, President's list.
- Olympiads Silver Medal – China Western Math Olympiad, Gold Medal - Romania National Math Olympiad.

Skills

- Programming PYTHON, MATHEMATICA, MATLAB, L^AT_EX
- Languages ROMANIAN & ENGLISH (fluent), GERMAN & FRENCH (working knowledge)

Talks

- August 2018 **UC Berkeley**, *Symplectic capacities and ECH*, Summer REU Berkeley.
Apr 2018 **UC Berkeley**, *ECH capacities for concave toric domains*, Symplectic/contact geometry seminar.
Feb 2018 **UC Berkeley**, *Obstruction bundle gluing*, Symplectic/contact geometry seminar.
Nov 2017 **UC Berkeley**, *About 2-dimensional soap bubbles*, Student topology seminar.
Oct 2017 **UC Berkeley**, *Symplectic cobordisms in SFT*, SFT Student learning seminar.
Dec 2016 **UC Berkeley**, *Obstructions to Lagrangian embeddings*, Topics class on J -holomorphic curves.
Feb 2016 **UC Berkeley**, *Embedded contact homology*, Symplectic and contact geometry seminar.

Conferences

- August 2018 **Augsburg Universität**, *Workshop on Symplectic Field Theory IX*.
May 2017 **Simons Center New York**, *Quantitative symplectic geometry*.
Feb 2017 **Ruhr Universität Bochum**, *Spring school in convex symplectic geometry*.
Jan 2017 **Université de Nantes**, *XI Workshop on Contact and Symplectic Topology*.
Aug 2016 **Humboldt Universität zu Berlin**, *Workshop on Symplectic Field Theory VIII*.
Jun 2016 **ETH Zürich**, *Analysis in the Large*.
Jan 2016 **Miami University**, *Simons Colaboration on Mirror simmetry*.