

Samouil Molcho

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PERSONAL INFORMATION

Citizenship: Greece

Date of Birth: 19/1/1988

EMPLOYMENT

Postdoctoral Researcher

Einstein Institute of Mathematics
Hebrew University of Jerusalem
Jerusalem, Israel

October 2018-October 2020

Postdoctoral Researcher

Scuola Normale Superiore
Pisa, Italy

October 2016-October 2018

Burnett Meyer Instructor

University of Colorado
Boulder, CO, USA

September 2014 – July 2016

EDUCATION

Brown University

Ph.D. Mathematics

May 2014

Advisor: Dan Abramovich

Brandeis University

B.A. Mathematics (summa cum laude)

May 2009

Wien International Scholar

RESEARCH INTERESTS

Algebraic Geometry: Logarithmic Geometry; Toric and Tropical Geometry; Moduli Spaces;
Gromov-Witten Theory; Curve Counting Invariants;

PAPERS AND PREPRINTS

- **Log Differentiable Spaces and Manifolds with Corners** With W.D. Gillam -- (Submitted)
- **Localization for Logarithmic Stable Maps** With E. Routis – *Transactions of the American Mathematical Society, Series B, 6 (2019)*
- **Log Stable Maps as Moduli Spaces of Flow Lines** With W.D Gillam
- **Logarithmic Stable Toric Varieties and their Moduli** With K. Ascher – *Algebraic Geometry 3(2016), no. 3, 296-319*
- **A Theory of Stacky Fans** With W.D Gillam -- (Submitted)

- **Appendix to: Moduli of Morphisms of Logarithmic Schemes:** Appendix C in the paper of J. Wise – *Algebra Number Theory* 10 (2016), no.4, 695-735
- **Universal Weak Semistable Reduction** -- (Submitted)
- **Tropicalizing the Moduli Space of Broken Toric Varieties** With J. Wise
- **The Logarithmic Picard Group and its Tropicalization** With J. Wise -- (Submitted)
- **Logarithmically Regular Morphisms** With M. Temkin -- (Submitted)

Currently in Preparation:

- **Crepant Resolutions and the Log McKay Correspondence** With G. Liu
- **The Logarithmic Deligne Pairing** With M. Ulirsch and J. Wise
- **The Logarithmic Picard Group and Neron Models** With D. Holmes, G. Orrechia, T. Poirer, J. Wise
- **Wall Crossings in the Universal Tropical Picard Variety** With M. Melo, M. Ulirsch, F. Viviani, J. Wise

TEACHING EXPERIENCE

Course on Logarithmic Geometry Scuola Normale Superiore	Spring 2018
Seminar on Derived Geometry Scuola Normale Superiore Organized the seminar and gave half of the lectures	Fall 2017
Seminar on Bridgeland Stability Conditions Scuola Normale Superiore Organized the seminar and gave half of the lectures	Spring 2017
Seminar on Fourier-Mukai Transforms Scuola Normale Superiore Organized the seminar and gave half of the lectures	Fall 2016
Math 8174: Topics in Algebraic Geometry - Moduli Spaces CU Boulder	Spring 2016
Math 2400: Multivariable Calculus CU Boulder	Fall 2015
Math 3130: Linear Algebra CU Boulder	Spring 2016
Math 3001: Real Analysis CU Boulder	Spring 2015
Math 2001: Discrete Mathematics CU Boulder	Fall 2014
Math 0190: AP Calculus Brown University	Fall 2013

Math 0200: Multivariable Calculus Brown University	Fall 2012
Math 0200: Multivariable Calculus Brown University	Fall 2011
Math 0090: Introductory Calculus I Brown University	Fall 2010

INVITED TALKS

Universitat Regensburg: NATROP 19	July 2019
Oberwolfach: Logarithmic Enumerative Geometry and Mirror Symmetry	June 2019
Goethe-Universitat Frankfurt	June 2019
University of Leiden	June 2019
University of British Columbia	Spring 2016
AMS Sectional Meeting, San Francisco	Fall 2014
University of Colorado at Boulder	Spring 2014
ETH Zurich	Spring 2013
University of Utah	Spring 2013

REFERENCES

Dan Abramovich

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Michael Temkin

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