

Michael Landry

Contact Information

Yale Mathematics Department
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Interests

Low-dimensional geometry and topology.

Education

- 2013 – Yale University, Ph.D. candidate in Mathematics
Advisor: Yair Minsky
- 2013 – 2016 Yale University, M.A. and M.Phil. in Mathematics
- 2008 – 2013 UC Berkeley, B.A. in Mathematics
Highest Honors in Mathematics
High Distinction in General Scholarship
- 2012 Budapest Semesters in Mathematics
High Honors
- 2004 – 2008 Santa Cruz High School
Valedictorian

Honors and Awards

- 2015 NSF Graduate Research Fellowship
- 2014 Honorable Mention, NSF Graduate Research Fellowship Program
- 2013 Dorothea Klumpke Roberts Prize, UC Berkeley Mathematics Department
- 2013 Phi Beta Kappa

Papers and Preprints

1. Taut branched surfaces from veering triangulations. Preprint at arXiv:1703.00336, 2017.
2. On symplectic capacities of toric domains. With M. McMillan, E. Tsukerman. *Involve* **8** 665-676, 2015.
3. Knot projections with a single multi-crossing. With C. Adams, T. Crawford, B. DeMeo, A. Lin, M. Montee, S. Park, S. Venkatesh, F. Yhee. *Journal of Knot Theory and its Ramifications* **24** (3), 2015.
4. Perfect state transfer on quotient graphs. With R. Bachman, E. Fredette, J. Fuller, M. Landry, M. Opperman, C. Tamon, A. Tollefson. *Quantum Information and Computation* **12**(3&4):293-313, 2012.

Talks

- 2017 *Non-Euclidean geometry and topology*, Contemporary Architecture Discourse Colloquium, Yale School of Architecture.
- 2015 *Classifying surfaces*, SUMRY colloquium, Yale.
The Thurston norm on homology, Graduate Student Seminar, Yale.
- 2014 *Seifert surfaces and genera of knots*, Yale Undergraduate Mathematics Society, Yale.
Seifert surfaces and genera of knots, SUMRY colloquium, Yale.
Morse homology, Student toric symplectic geometry seminar, Yale.
- 2013 *Symplectic capacities of toric domains*, Berkeley-Stanford REU Joint Conference, Stanford.
Knot projections with a single multi-crossing, AMS-MAA Joint Meetings, San Diego.
- 2012 *Why did the chicken übercross the road?* UnKnot Conference, Denison University.
- 2011 *Perfect state transfer on quotient graphs*, Young Mathematicians Conference, Ohio State.

Teaching Activities

- Spring 2017 TA For Math 160: The Structure of Networks, Yale
- Spring 2015 Graduate mentor for the Directed Reading Program, Yale
- Fall 2014 Graduate mentor for the Directed Reading Program, Yale
Calculus/linear algebra course assistant (Math 230), Yale
- Summer 2014 Graduate mentor for SUMRY (undergraduate research), Yale
- Fall 2013 Problem session for Single Variable Calculus (Math 112) at Yale
- Spring 2013 Two discussion sections for Multivariable Calculus (Math 53) at UC Berkeley
- 2010 – 2011 Math Tutor, UC Berkeley Student Learning Center

Undergraduate Research Experience

- 2013 UC Berkeley Geometry, Topology, and Operator Algebras RTG Program
- 2012 Williams College SMALL REU
- 2011 SUNY Potsdam/Clarkson University REU

Service

- Spring 2015 Organizer of the Directed Reading Program, Yale
- Fall 2014 Organizer of the Directed Reading Program, Yale
Organizer of the Graduate Student Seminar, Yale

Other Mathematical Activities

2013 *Mathematically Bent Theater*, Möbiusbandaid Players, AMS-MAA Joint Meetings, San Diego.
Played the role of Pythagoras in Colin Adams' short play "Pythagoras's Darkest Hour."