

Howard Thompson

Curriculum Vitae

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Education

- 1991–2002 **Ph.D.**, *University of California, Berkeley*.
Dissertation supervised by Arthur Ogus: *On toric log schemes*
- 1979–1984 **B.S.**, *University of California, Irvine*.
Mathematics

Employment

- 2009 – **Assistant Professor**, *University of Michigan-Flint, Flint, Michigan*.
present Member of Mathematics Department
- 2006–2009 **Assistant Professor**, *Spring Arbor University, Spring Arbor, Michigan*.
Member of Mathematics Department
- 2002 – 2006 **Assistant Professor**, *University of Michigan, Ann Arbor, Michigan*.
Postdoc in the Mathematics Department

Scholarship

Peer-Reviewed Papers

1. Howard M Thompson, *A short note on the multiplier ideals of monomial space curves*, J. Pure Appl. Algebra **220** (2016), no. 6, 2459–2466.
2. Howard M Thompson, *Multiplier ideals of monomial space curves*, Proc. Amer. Math. Soc. Ser. B **1** (2014), 33–41.
3. Karen E. Smith and Howard M. Thompson, *Irrelevant exceptional divisors for curves on a smooth surface*, Algebra, geometry and their interactions, Con- temp. Math., vol. 448, Amer. Math. Soc., Providence, RI, 2007, pp. 245–254.
4. Howard M. Thompson, *Toric singularities revisited*, J. Algebra **299** (2006), no. 2, 503–534.

Invited Workshops

1. Commutative Algebra, Mathematical Sciences Research Institute, August 20, 2012 – May 24, 2013
2. Relating test ideals and multiplier ideals, American Institute of Mathematics Research Conference Center, August 8 – 12, 2011
3. Combinatorial challenges in toric varieties, American Institute of Mathematics Research Conference Center, April 27 – May 1, 2009

4. Combinatorial Game Theory, Banff International Research Station, January 20 – 25, 2008
5. Numerical invariants of singularities and higher-dimensional algebraic varieties, American Institute of Mathematics Research Conference Center, July 31 – August 4, 2006
6. Convex and Algebraic Geometry, Mathematisches Forschungsinstitut Oberwolfach, January 29 – February 4, 2006

Invited Talks

1. *Multiplier Ideals of Certain Binomial Ideals*, AMS Special Session on Toric Algebraic Geometry and Beyond, (Akron, OH), October 2012
2. *An introduction to toric singularities*, Mathematics Seminar, University of Michigan-Flint, March 2008
3. *Toric singularities revisited*, AMS Joint Summer Research Conference, Commutative Algebra: Presentations by Young Researchers (Snowbird, UT), July 2003
4. *Comments on toric varieties*, AMS Special Session on Combinatorial Commutative Algebra and Algebraic Geometry, (San Francisco, CA), May 2003
5. *Multiplier ideals of torus invariant ideals on \mathbb{Q} -Gorenstein toric varieties can be computed using convex geometry*, Algebraic Geometry Seminar, University of Michigan, October 2000
6. *From toric varieties to log schemes*, Algebraic Geometry Seminar, University of Michigan, March 2002

Teaching

Over twenty years of experience teaching undergraduate mathematics, including teaching all the pure mathematics courses except Abstract Algebra I during three years at Spring Arbor University, as well as teaching a graduate course during four years at Ann Arbor. A variety of teaching experiences as a graduate student at Berkeley, including providing mathematics enrichment at an elementary school, acting as a teaching assistant for the Summer Mathematics Institute (for talented undergraduates from underrepresented groups), co-organizing the Preliminary Examination Workshop (preparation for a undergraduate mathematics content exam given to entering graduate students), and acting as a teaching assistant for a graduate course.

Since 2006, I have taught calculus and linear algebra to graduate students and junior faculty in the social sciences for the Inter-University Consortium for Political and Social Research Summer Program in Quantitative Methods of Social Research.