

Joseph D. Flenner

Curriculum Vitae

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<http://math.berkeley.edu/~flenner/research.html>

Hausdorff Research Institute for Mathematics
Poppelsdorfer Allee 45
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Date of Birth: December 28, 1977
Citizenship: United States

RESEARCH INTERESTS: Model theory of fields, valuation theory

· EDUCATION ·

B.S. Mathematics, Linguistics. University of Michigan, May 2000.

With Highest Distinction and Highest Honors in Mathematics

Ph.D. Mathematics. University of California, Berkeley, December 2008.

Thesis: The Relative Structure of Valued Fields

Committee: Thomas Scanlon (Chair), Leo Harrington, Branden Fitelson

· EMPLOYMENT ·

• HAUSDORFF RESEARCH INSTITUTE FOR MATHEMATICS

Guest Researcher: Trimester Program on Diophantine Equations, January - April 2009.

· AWARDS & FELLOWSHIPS ·

1. UC LEADS Outstanding Mentor Award, 2004.
2. National Defense Science & Engineering Graduate Fellowship, 2001-2004.
3. NSF Graduate Research Fellowship Honorable Mentions, 2000 & 2001.
4. Fulbright Fellowship (Germany), Albert-Ludwigs-Universität Freiburg, 2000-2001.
5. Evelyn O. Bychinsky Award in Mathematics, University of Michigan, 1998.

· PUBLICATIONS ·

1. *Definable subsets of henselian valued fields.* (2008)
Preprint available at <http://math.berkeley.edu/~flenner/research.html>.

· PRESENTATIONS ·

1. Hausdorff Research Institute, Diophantine Equations Seminar. *Relative decidability in henselian valued fields*. February 2009.
2. UCLA Logic Colloquium. *The relative structure of valued fields*. November 2008.
3. Wesleyan University, AMS Eastern Sectional meeting. *Definability in characteristic 0 henselian valued fields via leading terms*. October 2008.
4. McMaster University, Model Theory Seminar. *A decomposition theorem for characteristic 0 henselian fields*. November 2007.
5. University of Leeds, Model Theory Seminar. *Coding subsets of henselian fields*. June 2007.
6. University of California, Berkeley, Model Theory Seminar. Various topics. 2002-2008.

· CONFERENCES & WORKSHOPS ·

1. *New Methods in Hilbert's Tenth Problem*. Hausdorff Research Institute for Mathematics, Bonn. February 2009.
2. *Number Theory and Computability*. International Centre for Mathematical Sciences, Edinburgh. June 2007.
3. *Association for Symbolic Logic Annual Meeting*. University of Florida. March 2007.
4. *Model Theory and Computable Model Theory*. University of Florida. February 2007.
5. *Logic Colloquium '05*. University of Athens. July 2005.
6. *Model Theory and Applications to Algebra and Analysis*. Isaac Newton Institute for Mathematical Sciences, Cambridge. January-July 2005.
7. *Extensions of Hilbert's Tenth Problem*. American Institute of Mathematics, Palo Alto. March 2005.

· TEACHING ·

● UNIVERSITY OF CALIFORNIA, BERKELEY

- Professional Development Program, Graduate Student Instructor, 2007-2008.
Taught precalculus and calculus in more intensive discussion sections aimed at students underrepresented in the sciences.
- Department of Mathematics, Instructor, Summer 2006.
Principal instructor for summer course: Linear Algebra & Differential Equations.
- Department of Mathematics, Graduate Student Instructor, 2004-2007.
Led discussion sections in calculus, multivariable calculus, linear algebra & differential equations.

- UC LEADS Graduate Student Mentor, Summer 2004.
Mentored an undergraduate student during a summer research program.
- Departments of Mathematics and History, Instructor, Spring 2003.
Co-taught self-designed course, The World of Early-Modern Mathematics, with historian Luke Clossey, covering early-modern mathematics especially in non-western cultures.
- Extensive individual tutoring experience in algebra, analysis, linear algebra, and logic.

· REFERENCES ·

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- *Teaching:*
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