

# Samuel M. Kadziela

## Curriculum Vitae

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### PERSONAL

Home: 1834 Whispering Trail, Irvine, CA 92602

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Web: <http://www.math.uci.edu/~kadziela>

Birth: January 8, 1978, Szczecin, Poland

Citizenship: Polish, Permanent Resident of USA

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### EMPLOYMENT

2007-Present: **Visiting Assistant Professor**, University of California, Irvine, CA  
Research Interests: Uniformization of curves over  $p$ -adic fields, Rigid Analytic  
Geometry, Number Theory, Arithmetic Geometry

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### EDUCATION

2002-2007: **Ph.D., Mathematics**, University of Illinois, Urbana-Champaign, IL  
Dissertation: *Rigid Analytic Uniformization of Hyperelliptic Curves*  
Advisor: Iwan Duursma

2000-2002: **M.S., Mathematics**, University of Michigan, Ann Arbor, MI

1996-2000: **B.A., Mathematics with minor in Computer Science**, Boston University,  
Boston, MA

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## PUBLICATIONS

1. *Rigid analytic uniformization of curves and the study of isogenies*, Acta Applicandae Mathematicae, 99 (2007), pp. 185-204.
2. *p-adic uniformization of hyperelliptic curves*, submitted, also available at <http://www.math.uci.edu/~kadziela/pub/Uhc.pdf>.
3. *Rigid analytic uniformization of hyperelliptic curves*, Ph.D. thesis, University of Illinois at Urbana-Champaign, May 2007.

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## INVITED TALKS

- January 2008: *An algorithm for computing the p-adic uniformization of genus 2 curves*, Joint Mathematics Meetings, San Diego, CA
- June 2007: *Mumford curves parameterizing hyperelliptic curves*, Number Theory Seminar, University of California, Irvine

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## CONTRIBUTED TALKS

- March 2007: *Computation of p-adic integrals on Shimura curves*: Student project report, Arizona Winter School, Tucson, AZ
- October 2006: *p-adic uniformization of curves*, Midwest Number Theory Conference for Graduate Students, UIUC
- July 2005: *Eigenforms, Abelian Varieties and Modularity*, Summer 2005 Number Theory Seminar, UIUC
- February 2005: *Modular Curves and Moduli Spaces*, Modular Forms RAP, UIUC
- June 2004: *Eichler-Shimura Theory*, Summer 2004 Number Theory Seminar, UIUC
- September 2003: *Complex Multiplication and Construction of Elliptic Curves*, Algebraic Number Theory Seminar, UIUC
- July 2003: *Constructing Elliptic Curves with Prescribed Number of Points*, Motorola, Chicago, IL

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## FELLOWSHIPS AND RESEARCH ASSISTANTSHIPS

- Spring 2007: Hogan J.D. Scholar Fellowship
- Spring 2007: Trjitzinsky Memorial Fellowship
- Fall 2005: NSF Math Department Fellowship
- Summer 2005: VIGRE Fellowship
- Spring 2005: VIGRE Fellowship
- Fall 2004: VIGRE Fellowship
- Summer 2004: REGS Fellowship
- Spring 2004: VIGRE Fellowship
- Summer 2003: REGS Fellowship
- Spring 2003: Research Assistantship supported by Motorola grant

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## TEACHING EXPERIENCE

2007-Present: University of California at Irvine

- Introduction to Number Theory (Winter 2008)
- Introduction to Abstract Mathematics (Fall 2007, Winter 2008)
- Introduction to Cryptology II (Summer 2007)

2002-2007: University of Illinois at Urbana-Champaign

- Calculus III (Fall 2006)
- Calculus of Several Variables (Summer 2006)
- Finite Mathematics (Spring 2006)
- Theory of Arithmetic (Fall 2003)
- Intro Differential Equations (Fall 2003) (Tutoring Assignment)
- Calculus for Social Scientists, I (Spring 2003)
- Calculus and Analytic Geometry, I (Fall 2002)

2000-2002: University of Michigan at Ann Arbor

- Calculus I (Spring 2002)

- Calculus I (Fall 2001)
  - Data, Functions and Graphs (Spring 2001)
  - Data, Functions and Graphs (Fall 2001)
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## AWARDS AND HONORS

- 2007            Bateman Prize in Number Theory
- 2007            Department Teaching Assistant Instructional Award
- 2003, '04, '06: Nominated candidate for the Mathematics Department teaching award
- Summer 2006: Placed on *An Incomplete List of Teachers Ranked as Excellent by Their Students*
- Fall 2002:      Placed on *An Incomplete List of Teachers Ranked as Excellent by Their Students*, with outstanding ratings.
- May 2000:      Magna Cum Laude, Boston University
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## CONFERENCES ATTENDED

- January 2008: Joint Mathematics Meetings, San Diego
  - June 2007: Summer School on Coding Theory, Nordfjordeid, Norway
  - March 2007: The Arizona Winter School on  $p$ -adic geometry
  - January 2007: Joint Mathematics Meetings, New Orleans
  - October 2006: Midwest Number Theory Conference for Graduate Students, UIUC
  - February 2005: Midwest Number Theory Conference for Graduate Students, UIUC
  - October 2004: Midwest Number Theory Conference, University of Chicago
  - April 2003: AMS Special session on cryptography and computational and algorithmic number theory, Indiana University
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## COMPUTER SKILLS

- Programming Experience in C, Pascal, Assembly, HTML
- Proficiency in Mathematica, Magma, Macaulay 2, LaTeX

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PROFESSIONAL MEMBERSHIPS

- American Mathematical Society

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REFERENCES

**Iwan Duursma**

Associate Professor  
Department of Mathematics  
University of Illinois at Urbana-Champaign  
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