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**ACADEMIC POSITIONS**

**University of Utah**, Department of Mathematics, Salt Lake City.

July 2007–present. Assistant Professor (tenure-track).

**Massachusetts Institute of Technology**, Department of Mathematics, Cambridge.

September 2004–June 2007. C.L.E. Moore Instructor.

**EDUCATION**

**Cornell University**, Ithaca, NY.

August 2004. Ph.D. Mathematics. Advisor: Prof. Dan Barbasch. Dissertation: Unitary representations of split  $p$ -adic groups.

**Babeş–Bolyai University**, Cluj–Napoca, Romania.

July 1998. B.S. and M.A. Mathematics. Advisor: Prof. Andrei Mărcuş.

**RESEARCH**

Representations of real and  $p$ -adic reductive Lie groups.

**AWARDS and SUPPORT**

2006–2009 Personnel – NSF DMS-0554278 “FRG: Atlas of Lie groups and representations” (summer salary).

June 2008 Visiting scholar, Max Planck Institut, Bonn.

2005 Personnel – NSF DMS-0532088 “Atlas of Lie groups and representations” (summer salary).

2005, 2006 MIT OpenCourseWare faculty allowance for courses 18.700 and 18.100C.

2003 Graduate Student Teaching Award, Department of Mathematics, Cornell University.

2002 Hutchinson Fellowship, Cornell University.

**TEACHING**

**University of Utah.**

Fall 2009	6310-1	Modern Algebra I
	2200-3	Discrete Mathematics
Spring 2009	6789-1	Topics in Representation Theory
Fall 2008	2200-1	Discrete Mathematics
Spring 2008	6220-1	Graduate Complex Analysis
Fall 2007	2210-1	Calculus III.

**Massachusetts Institute of Technology.**

Spring 2007	18.100C	Analysis I
Fall 2006	18.104	Seminar in Analysis (Applications to number theory)
Spring 2006	18.100C	Analysis I <sup>1</sup>
Fall 2005	18.700	Linear Algebra <sup>2</sup>
Spring 2005	18.085	Mathematical Methods for Engineering I
Fall 2004	18.01	Calculus I (3 sections).

### Cornell University.

Teaching assistant instructor for sections of the following courses:

Spring 2004	Math 192	Calculus for Engineers
Spring 2003	Math 112	Calculus II
2001	Math 111	Calculus I.

### PUBLICATIONS

#### Published or accepted:

1. The unitary  $I$ -spherical dual of split  $p$ -adic  $F_4$ , Represent. Theory **9** (2005), 94–137.
2. Spherical unitary principal series, with D. Barbasch, Pure Appl. Math. Q. **1** (2005), no. 4, 755–789.
3. Unitary  $I$ -spherical representations for split  $p$ -adic  $E_6$ , Represent. Theory **10** (2006), 435–480.
4. Unitarizable minimal principal series of reductive groups, with D. Barbasch and A. Pantano, Contemp. Math., 472, Amer. Math. Soc., 2008, 63–136.
5. Multiplicity matrices for the affine graded Hecke algebra, J. Algebra **320** (2008), 3950–3983.
6. On unitary unipotent representations of  $p$ -adic groups and affine Hecke algebras with unequal parameters, Represent. Theory **12** (2008), 453–498.
7. Whittaker unitary dual for affine graded Hecke algebras of type  $E$ , with D. Barbasch, 47 pages, to appear in Compositio Math.
8. Regular orbits of symmetric subgroups on partial flag varieties, with K. Nishiyama and P. Trapa, 20 pages, to appear in Representation Theory, Complex Analysis, and Integral Geometry, vol. 2, Progress in Mathematics, Birkhäuser.

#### Preprints<sup>3</sup>:

1. Tempered modules in exotic Deligne-Langlands correspondence, with S. Kato, arXiv:0901.3918, 54 pages, submitted, June 2009.
2. Duality for  $GL(n, R)$  and the degenerate affine Hecke algebra for  $gl(n)$ , with P. Trapa, arXiv:0903.1043, 22 pages.
3. Functors for unitary representations of real classical groups and affine Hecke algebras, with P. Trapa, arXiv:0906.2378, 23 pages.
4. Unitary functorial correspondences for  $p$ -adic groups, with D. Barbasch, 28 pages.
5. Generic unipotent standard modules, 8 pages.

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<sup>1</sup>published by MIT OpenCourseWare at [ocw.mit.edu/OcwWeb/Mathematics/18-100CSpring-2006/CourseHome/index.htm](http://ocw.mit.edu/OcwWeb/Mathematics/18-100CSpring-2006/CourseHome/index.htm)

<sup>2</sup>published by MIT OpenCourseWare at [ocw.mit.edu/OcwWeb/Mathematics/18-700Fall-2005/CourseHome/index.htm](http://ocw.mit.edu/OcwWeb/Mathematics/18-700Fall-2005/CourseHome/index.htm)

<sup>3</sup>preprints are available at [www.math.utah.edu/~ciubo/papers](http://www.math.utah.edu/~ciubo/papers).

## RECENT TALKS

### Conferences, workshops.

- Representation theory of real reductive groups, Salt Lake City, July 2009.
- Functional Analysis XI, Dubrovnik, Croatia, June 2009.
- Functional Analysis X, Dubrovnik, Croatia, July 2008.
- Atlas of Lie groups and representations I–VI, American Mathematics Institute, Palo Alto, CA, 2003–2008.
- Workshop in representation theory and geometry, Tambara seminar house, University of Tokyo, August 2007.
- Congress of Romanian mathematicians, Bucharest, June 2007.
- Special session on representation theory and the theta correspondence, A.M.S. National Meeting, New Orleans, LA, January 2007.
- Representation theory of real reductive groups, Snowbird, June 2006.
- Special session on algebraic groups, A.M.S. Sectional Meeting, Durham, NH, April 2006.
- Special session on representation theory of reductive groups, A.M.S. Sectional Meeting, Evanston, IL, October 2004.

### Colloquia, Seminars.

- Babeş-Bolyai University, Cluj, Romania, Algebra seminar, July 2009, June 2009.
- Utah Representation theory seminar, November 2008, September 2007, January 2007, April 2006.
- Idaho State University, Colloquium, February 2008.
- MIT Lie groups seminar, May 2007, May 2006, February 2005, September, October 2004.
- University of Utah, Colloquium, January 2007.
- University of British Columbia, Colloquium, January 2007.
- UMass Amherst Representation theory seminar, April 2005.
- Maryland Lie groups and representation theory, November 2004.
- Joint Princeton University/IAS Number Theory Seminar, March 2004.
- Rutgers Lie Groups Seminar, October 2003.
- Cornell Lie Groups Seminar, November 2002.

## DEPARTMENTAL SERVICE

### University of Utah.

Organizer or co-organizer for:

- Representation theory seminar, 2008–2009.
- Reading course in automorphic forms and representations, 2008–2009, six students.
- Reading course in representation theory, Spring 2009, two students.
- Math Circle for high school students (Vigre program), 2008–2009.
- Undergraduate Math Colloquium, 2007–2008, Fall 2008.
- Early Research Directions (Vigre program): Representation Theory, Spring 2008.

Member of the oral exam committee for: Ben Trahan (2008), Ching-Jui Lai (2009).

Member of the Ph.D. final defense committee for: Scott Crofts (2009), Tommaso Centeleghe (2009), Jason Preszler (2009).