

CURRICULUM VITAE
Peter J. McNamara

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CITIZENSHIP Australian

EDUCATION

Ph.D. Mathematics, Massachusetts Institute of Technology, expected May 2010.

Advisor: Professor Ben Brubaker.

Dissertation Topic: Metaplectic Whittaker functions.

B.Sc.(Hons), University of Sydney, Mathematics, First Class Honours 2005.

SELECTED AWARDS

2005 University Medal, University of Sydney.

2005 MJ and M Ashby Prize, for best Honours essay in Pure Mathematics, Applied Mathematics or Mathematical Statistics, University of Sydney.

2001 International Mathematical Olympiad, Gold Medal.

2000 International Mathematical Olympiad, Gold Medal.

1999 International Mathematical Olympiad, Bronze Medal.

RESEARCH INTERESTS

Broad: Number theory, representation theory, algebraic combinatorics.

Specific: Representation theory of p -adic groups, symmetric functions.

PUBLICATIONS

P.J. McNAMARA, *Factorial Grothendieck Polynomials*, Electron. J. Combin., **13** (2006), Research Paper 71, 40 pp. (electronic).

P.J. McNAMARA, *Metaplectic Whittaker Functions and Crystal Bases*, arXiv:0907.2675, submitted for publication.

P.J. McNAMARA, *Principal Series Representations of Metaplectic Groups over Local Fields*, arXiv:0911.2274.

P.J. McNAMARA, *Factorial Schur Functions via the Six Vertex Model*, arXiv:0910.5288.

J. EAST AND P.J. McNAMARA, *On the Work Performed by a Transformation Semigroup*, in preparation.

CONFERENCE AND SEMINAR TALKS

06/2009 p -adic Integration, *Fourth Workshop on Multiple Dirichlet Series*, Stanford University, CA.

04/2008 Arizona Winter School Redux, *Number Theory Seminar*, MIT, MA.

CONFERENCES AND WORKSHOPS ATTENDED

06/2009 *Fourth Workshop on Multiple Dirichlet Series*, Stanford University, CA.

05/2009 *Fields Workshop on Geometry Related to the Langlands Programme*, University of Ottawa, Ontario.

03/2009 *Arizona Winter School (Quadratic Forms)*, University of Arizona, AZ.

05/2008 *Analytic Number Theory and Higher Rank Groups*, New York University, NY.

03/2008 *Arizona Winter School (Special Functions and Transcendence)*, University of Arizona, AZ.

09/2005 *Annual Meeting of the Australian Mathematical Society*, University of Western Australia, WA.

TEACHING EXPERIENCE

Recitation Instructor, Linear Algebra (18.06), MIT, Spring 2008.

Mentor, Project Laboratory in Mathematics (18.821), MIT, Fall 2007.

Lecturer, Linear Algebra (18.06), MIT, Summer 2007.

Tutor, Life Sciences Difference and Differential Equations (MATH1013), USyd, 2nd semester 2005.

Tutor, Integral Calculus and modelling (MATH1003), USyd, 2nd semester 2005.

Tutor, Linear Algebra (MATH1002), USyd, 1st semester 2005.

Resident lecturer at mathematics camps for Olympiad students, Australia, 2003-2005.

REFERENCES

Ben Brubaker, MIT. brubaker@math.mit.edu

Daniel Bump, Stanford University. bump@math.stanford.edu

Omer Offen, Technion, Israel. offen@tx.technion.ac.il

Arthur Mattuck, MIT. apm@math.mit.edu (teaching reference)