

Twenty-Two PhDs Awarded in 2005

Twenty-two mathematics PhDs were awarded by UW-Madison in calendar year 2005. Recipients, thesis advisors, current positions, and thesis titles are listed below.

- Benesh, Bret** (Advisor: Nigel Boston) Preceptor in Mathematics, Harvard University. *Counting generators in finite groups that are generated by two subgroups of prime power order.*
- Bisgard, James** (Advisor: Paul Rabinowitz) Central Washington Univ. *Homoclinic and heteroclinic orbits for Hamiltonian systems.*
- Carracino, Christine** (Advisor: Alex Nagel) Assistant Professor of Mathematics, Richard Stockton College of New Jersey. *Estimates for the Szego kernel on a non-pseudoconvex domain.*
- Charalambides, Marios** (Advisor: Fabian Wal-effe) Lecturer in Mathematics, Frederick Institute of Technology in Cyprus. *Stable spectral methods with no spurious eigenvalues.*
- Chatterjee, Rohit** (Advisor: Ken Ono) Interactive Brokers, Greenwich, Connecticut. *On class polynomials and supersingular j -invariants.*
- Cossey, James (JP)** (Advisor: Marty Isaacs) Postdoc at University of Arizona. *Generalizations of the Fong-Swan theorem.*
- Davis, Joshua** (Advisor: Eleny Ionel) Duke University Mathematics Department. *Degenerate relative Gromov-Witten invariants and symplectic sums.*
- de la Vega, Ramiro** (Advisor: Ken Kunen) Assistant Professor at Universidad de los Andes, in Colombia. *Homogeneity properties on compact spaces.*
- Dwyer, Chris** (Advisor: Alejandro Adem) Postdoc at SUNY-Binghamton. *Twisted equivariant K -theory for proper actions of discrete groups.*
- Halfpap, Jennifer** (Advisor: Alex Nagel) Assistant Professor, University of Montana. *Contributions to the theory of the holomorphic extension of CR functions.*
- Jenkins, Michael (Adrian)** (Advisor: Xiang-hong Gong) Research Assistant Professor, Purdue University. *Equivalences of holomorphic mappings in one and several complex variables.*
- Kent, Thomas** (Advisor: Steffen Lemp) Brigham Young University, 2005-2006, and then Marie Curie Fellowship to visit University of Siena, Italy, for 2 years. *Decidability and definability in the Σ_2^0 -enumeration degrees.*
- Lo, Darren** (Advisor: Marty Isaacs) Medtronic, Inc., Minneapolis. *Several results on relativized character degrees.*
- McQuistan, Michael** (Advisor: Marty Isaacs) National Security Agency. *Relativized character degree problems.*
- Raich, Andrew** (Advisor: Alex Nagel) Postdoc, Texas A&M University. *Heat equations in $\mathbb{R} \times \mathbb{C}$.*
- Ramsamoj, Neil** (Advisor: Eleny Ionel) University of West Indies. *Gromov-Witten invariants of a $K3$ fibration.*
- Rushton, Joshua** (Advisor: Jim Kuelbs) Postdoc at Cornell University. *Small-ball estimates and accompanying LIL for α -stable and related processes.*
- Stefansson, Halldor Narfi** (Advisor: Amos Ron) The Mathworks Inc., Boston. *The structure of sparse representations of images using tight frames.*
- Swisher, Holly** (Advisor: Ken Ono) Ross Assistant Professor, Ohio State University (2005-2006), Assistant Professor, Oregon State University (2006-). *Asymptotics and congruence properties for Stanley's partition function, and a note on a theorem of Koike.*
- Temple, Kathryn** (Advisor: Tom Kurtz) Assistant Professor, Central Washington University Department of Mathematics. *Particle representations for measure-valued processes with interactions and exit measures.*
- Weinberg, Aaron** (Advisor: Bob Wilson) Assistant Professor of Mathematics at Ithaca College. *A framework for analyzing objects in mathematical discourse.*
- Wiesner, Emilie** (Advisor: Arun Ram) Franklin Fellow at the University of Georgia. *Translation functors and the Shapovalov determinant.*