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Education

B.S. Applied Mathematics, North Carolina State University, 2004.

Minors: Economics and Computer Science.

Honors: *Summa Cum Laude*, Phi Beta Kappa.

Advanced study: Budapest Semesters in Mathematics, Fall 2002.

M.A. Economics, Duke University, 2006.

Ph.D. Economics, Duke University, *expected* 2010.

Committee: Han Hong, Shakeeb Khan, Patrick Bayer, Paul Ellickson, and Andrew Sweeting.

Teaching and Research Fields

Industrial Organization, Econometrics, Applied Microeconomics

Academic Experience

North Carolina State University, Department of Mathematics

Mathematics Tutor, Academic Support Program for Student Athletes, Summer 2001.

Research Assistant, Moody Chu and Robert Funderlic, Spring 2003–Spring 2004.

Colorado School of Mines, Department of Mathematical and Computer Sciences

Research Assistant, Willy Hereman, Summer 2002.

Duke University, Department of Economics

Research Assistant, Jacob Vigdor, Summer 2005–Summer 2006.

Teaching Assistant, Ph.D. Microeconomic Analysis, Thomas Nechyba, Fall 2005.

Teaching Assistant, Ph.D. Game Theory, Curtis Taylor, Spring 2006.

Research Assistant, Han Hong, Fall 2006–Spring 2007.

Teaching Assistant, Ph.D. Econometrics II, Shakeeb Khan, Spring 2007.

Research Assistant, Peter Arcidiacono, Patrick Bayer, and Paul Ellickson, Fall 2007–Present.

Research

Work in Progress

Structural Estimation of Sequential Games of Complete Information.

Sequential Monte Carlo Methods for Estimating Dynamic Microeconomic Models.

Learning by doing in DRAM production.

Estimation of Dynamic Discrete Choice Models in Continuous Time, with Peter Arcidiacono, Patrick Bayer, and Paul Ellickson.

Working Papers

Distribution-Free Estimation of Heteroskedastic Binary Response Models in Stata, with Shakeeb Khan (2008).

Scientific Software

PDESolutionTester, A Mathematica program for the symbolic verification of exact solutions of nonlinear partial differential equations, with Jeff Heath and Willy Hereman (2002).

DFBR, A Stata program for distribution-free estimation of heteroskedastic binary response models, with Shakeeb Khan (2008).

Unpublished Papers

Updating the Centroid Decomposition with Applications in LSI, with M. T. Chu, D. Cañas, R. E. Funderlic, N. Orlowski, and D. Schlorff (2004).

The Effects of Ties on Convergence in K-Modes Variants for Clustering Categorical Data, with N. Orlowski, D. Schlorff, D. Cañas, M. T. Chu, and R. E. Funderlic (2004).

Invited Talks

Conference Presentations

ERID Conference on Identification Issues in Economics, Duke University, October 3, 2008.

Teaching

Graduate Courses at Duke University

Microeconomics Qualifier Camp, Summer 2006.

Professional Activities

Service

Vice President, Economics Graduate Student Council, Duke University, 2006–2007.

Vice President, Society of Undergraduate Mathematics, North Carolina State University, 2001–2003.

Professional Memberships

Econometric Society, 2006–Present.

Conferences and Workshops Attended

SIAM Conference on Applied Linear Algebra, The College of William & Mary, July 15–19, 2003.

Institute on Computational Economics, Argonne National Laboratory, July 17–21, 2006.

North American Summer Meetings of the Econometric Society, Duke University, June 21–24, 2007.

ERID Conference on Identification, Duke University, October 3–4, 2008.

Refereeing

Economic Inquiry (1)

Honors & Awards*Fellowships*

NSF Research Experiences for Undergraduates, Colorado School of Mines, 2002.

Institute on Computational Economics Fellow, University of Chicago, 2006.

Summer Research Fellowship, Duke University, 2007.

Summer Research Fellowship, Duke University, 2008.

Awards

Dean's List, North Carolina State University, 2000–2004.

Undergraduate Research Award, North Carolina State University, 2004.

Outstanding Teaching Assistant Award, Duke University, 2006.

Honorary Societies

Golden Key International Honour Society, 2002.

Phi Kappa Phi, 2002.

Pi Mu Epsilon, National Mathematics Honor Society, 2003.

Phi Beta Kappa, Zeta of North Carolina, 2003.

Omicron Delta Epsilon, International Economics Honor Society, 2004.

Miscellaneous*Computer Skills*

C, C++, Fortran, Perl, Ruby, Python, Linux, Matlab, Mathematica, R, Stata, SAS, SQL, \LaTeX .

References

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