

Curriculum Vitae

Maria Chudnovsky

Contact Information

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Date of Birth: January, 6, 1977

Country of Citizenship: Israel

Present Position

Ph.D. Candidate in the Mathematics Department at Princeton University

Advisor: Paul Seymour

Degree Expected : June, 2003

Research Interests

Combinatorics and Graph Theory

In particular - Perfect Graphs

Education

M.A Princeton University, 2002

M.SC Technion, Israel Institute of Technology, Mathematics, 1996-1999.

Thesis Title : Systems of Disjoint Representatives.

Thesis Advisor: Ron Aharoni

B.A. *Summa Cum Laude* Technion, Israel Institute of Technology , Mathematics, 1994-1996.

Other Experience:

1996 - 1999 Service in the Israel Defense Force.

Publications and Preprints:

- The Strong Perfect Graph Theorem (*with N.Robertson, P.Seymour, R.Thomas*) *Manuscript, June 2002*
- Recognizing Berge Graphs (*with Paul Seymour*) *submitted for publication*
- Cleaning for Bergeness (*with G.Cornuéjols, X.Liu, P.Seymour, K.Vušković*) *submitted for publication*
- Berge Trigraphs *in preparation*
- Progress on Perfect Graphs (*with N.Robertson, P.Seymour, R.Thomas*) *Manuscript, December 2002*
- Triangulated Spheres and Colored Cliques (*with R. Aharoni, A. Kotlov*) *Discrete and Computational Geometry 28 (2002), 223-229*
- Systems of Disjoint Representatives, M.Sc. Thesis, Technion.

Invited Talks:

- ACO Colloquium, Georgia Institute of Technology, Atlanta, GA, 2003
- Tenth Workshop on Applied/Advanced Research in Combinatorial Optimization, University of Southern Denmark, Odense, Denmark, 2003
- Oberwolfach Meeting on Graph Theory, 2003
- Tutte Seminar, University of Waterloo, Ontario, Canada, 2003
- ACCOTA 2002 International Workshop, Combinatorial and Computational Aspects of Optimization, Topology and Algebra, San Cristbal de las Casas, Chiapas, Mexico, 2002

- 2nd Columbia Optimization Day, Advances in Optimization, Columbia University, New York, NY 2002
- ARCC Workshop on The Perfect Graph Conjecture, American Institute of Mathematics, Palo Alto, CA, 2002
- The Joint ALADDIN/Theory/Operations Research Seminar, Carnegie Mellon University, Pittsburg, PA 2002
- Discrete Math/Theory of Computing Seminar, Rutgers University, Piscataway, N.J. 2002
- Combinatorics and Number Theory Seminar, SUNY at Binghamton, 2002
- A Conference on Matroid Structure Theory in Honour of W.T. Tutte, The Ohio State University, 2002
- CS Theory Seminar, Department of Computer Science, Princeton, 2002
- Oberwolfach Meeting on Geometric Convex Combinatorics, 2002
- Discrete Mathematics Day at Dartmouth College, 2002
- Courant Institute Geometry Seminar, 2001
- Princeton Discrete Math Seminar, 2001
- Sectional meeting of AMS, April 28-29, 2001
Session on matchings in graphs and hypergraphs
- Bar Ilan University Discrete Math Seminar, Israel, 2000
- The Technion Discrete Math Seminar, Israel, 2000

Honors and Awards:

- Clay Mathematics Institute Long Term Prize fellow (2003-2008)
- Excellence Fellowship for graduate study (1997)
- Byckov Foundation Award for Excellent Academic Achievements (1996)

- The Technion President Award (3 times, 1995, 1996)
- The Dean Award (1995)
- Full tuition and maintenance allowance scholarship during the undergraduate study.
It was awarded to me because I was accepted to the Technion Excellence Program.

Teaching Experience:

Fall 2002 Princeton University, MAT 202, Linear Algebra With Applications, instructor

Spring 2002 Princeton University, MAT 104, Calculus, teaching assistant

Fall 2001 Princeton University, MAT 202, Linear Algebra With Applications, teaching assistant

Spring 2000 The Technion, Combinatorial Algorithms, teaching assistant

Fall 1999 The Technion, Introductory Combinatorics, teaching assistant