Ajinkya More

CONTACT INFORMATION

Department of Mathematics
University of Michigan, Ann Arbor
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EDUCATION

University of Michigan, Ann Arbor

Ph.D., Mathematics (2008-2012)

- Dissertation: Symbolic Powers and Other Contractions of Ideals in Noetherian Rings
- Advisor: Prof. Melvin Hochster

M.S., Applied Mathematics, (2006-2009)

Indian Institute of Technology, Bombay

B.Tech., Chemical Engineering, (2002-2006)

- GPA 8.94/10.00

PUBLICATIONS

On the integral closedness of mI, in preparation (2012).

On the Eisenbud-Mazur conjecture, in preparation (2012).

Uniform bounds on symbolic powers, in preparation (2012).

Concatenation structures over the fields of p-adic numbers, (with Prof. Jun Zhang) in preparation (2012).

Analytical solutions for the Colebrook and White equation and for pressure drop in ideal gas flow in pipes, Chemical Engineering Science (2006), vol 61, no. 16, 5515-5519.

Evaluation of thermodynamic and kinetic quantities for a reaction using Gaussian 98 (using Hartree Fock theory), Indian Institute of Chemical Engineers conference (2005).

AWARDS AND ACHIEVEMENTS

2010	University of Michigan, Ann Arbor Graduate Teacher Certificate
2008	Alice Webber Grover Fellowship, Department of Mathematics, University of Michigan, Ann Arbor
2007, 2009	Spring Scholarship, Department of Mathematics, University of Michigan, Ann Arbor
2006	Research Award, Indian Institute of Technology, Bombay
2003-2006	Vaishno Mal Malhotra Scholarship, Indian Institute of Technology, Bombay
2001	Nation top 1 per cent, Indian National Physics Olympiad

TALKS/POSTERS

Symbolic Powers in Noetherian Rings, MAA Mathfest 2012, Madison, Wisconsin (Aug 2012).

Symbolic Powers in Noetherian Rings, Young Researchers Meet, Stanford (May 2012).

Linear and Uniform Bounds on Symbolic Powers, Commutative Algebra Seminar, University of Michigan, Ann Arbor (May 2012).

Integral Closure of Ideals, Student Commutative Algebra Seminar, University of Michigan, Ann Arbor (Nov 2011).

Groebner Bases and Integer Programming, Student Combinatorics Seminar, University of Michigan, Ann Arbor (Dec 2008).

Complexity Reduction in a Discrete State Estimator using Partial Order Theory, Electrical Engineering and Computer Science, University of Michigan, Ann Arbor (October 2007).

Computer Skills		
	Programming	Matlab, C++
	Word Processing	Latex, Microsoft Office
	Softwares	Matlab, Mathematica, Maple
	Operating Systems	Windows, OS X, Linux

Employment

2008-2012   Graduate Student Research Assistant
       Advisor: Prof. Melvin Hochster
       Mathematics, University of Michigan, Ann Arbor

2011   Research Assistant
       Advisor: Prof. Jun Zhang
       Psychology, University of Michigan, Ann Arbor

2007   Research Assistant
       Advisor: Prof. Domitilla Del Vecchio
       Electrical Engineering and Computer Science, University of Michigan, Ann Arbor

2006   Research Assistant
       Advisor: Prof. Angela Stevens
       Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany

2005   Intern
       Engineering and Design Center
       Larsen and Toubro, Mumbai

2004   Research Assistant
       Advisor: Dr. Nitin Deshpande
       Unilever Research, Bangalore, India

2003   Instructor (Physics, Mathematics, Chemistry)
       Yukti Educational Services, Mumbai

Teaching Experience

University of Michigan, Ann Arbor

Winter	2011	Lab Instructor, Calculus IV, Department of Mathematics
Summer	2011	Lab Instructor, Calculus III, Department of Mathematics
Spring	2011	Lab Instructor, Calculus III, Department of Mathematics
Summer	2010	Lab Instructor, Calculus III, Department of Mathematics
Summer	2010	Teaching Consultant, English Language Institute
Fall	2009	Lab Instructor, Calculus III, Department of Mathematics
Summer	2009	Teaching Consultant, English Language Institute
Winter	2009	Primary Instructor, Calculus II, Department of Mathematics
Fall	2008	Primary Instructor, Calculus II, Department of Mathematics
Summer	2008	Teaching Consultant, English Language Institute
Winter	2008	Lab Instructor, Calculus III, Department of Mathematics
Fall	2007	Primary Instructor, Calculus II, Department of Mathematics
Winter	2007	Primary Instructor, Calculus I, Department of Mathematics
Fall	2006	Primary Instructor, Pre-Calculus, Department of Mathematics

Volunteer Activities	2011	Co-organizer, Student Commutative Algebra Seminar, Mathematics, University of Michigan, Ann Arbor
	2011	Referee, Engineering Computations Journal

Referees	Melvin Hochster	Professor and Chair, Department of Mathematics, University of Michigan, Ann Arbor
	Michael Zieve	Associate Professor, Department of Mathematics, University of Michigan, Ann Arbor
	Wenliang Zhang	Post-doctoral Assistant Professor, Department of Mathematics, University of Michigan, Ann Arbor