

Summary of various teaching and teaching-related responsibilities and activities

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Courses taught at University of Illinois at Urbana-Champaign (UIUC)

Course Number	Course Name	Responsibility	Number of times
MATH 220	Calculus I	Discussion Assistant	1
MATH 242	Multivariable Calculus	Discussion Assistant	1
MATH 242	Multivariable Calculus	Instructor	2
MATH 242	Multivariable Calculus w/ <i>Mathematica</i>	Instructor	4
MATH 213	Discrete Mathematics	Instructor	2
MATH 225	Linear Algebra	Instructor	1
MATH 220	Calculus I w/ <i>Mathematica</i>	Instructor	2
MATH 125	Linear Algebra for Business Students	Instructor	1
CS 105	Computer Science for Non-technical Majors	Lab Instructor	1
CS 273	Introduction to Algorithms	Grader	1
MATH 580	Graduate Intro. to Combinatorics	Grader	2
MATH 417	Introduction to Abstract Algebra	Grader	1

Courses taught at University of Rochester

Course Number	Course Name	Responsibility	Number of times
CS 108	Introduction to Computers	Lab Instructor	1
MATH 150	Discrete Mathematics	Discussion Assistant	1
MATH 220	Discrete Mathematics	Discussion Assistant	1
MATH 174	Honors Multivariable Calculus	Homework Assistant	1
MATH 141	Calculus I	Instructor	1
MATH 150	Discrete Mathematics	Instructor	1

Recognition of Teaching Effectiveness

1. Have been awarded the UIUC Department of Mathematics TA Instructional Award in April 2008. This award is presented for exemplary teaching and selection is based on classroom observation, comments from students, and a written report by the nominees describing their teaching goals.

2. Appeared in the “List of Teachers Ranked as Excellent by Their Students” eight times. The criteria for inclusion in this list is to receive a rating of at least 4.3 (out of 5) for the item Instructor's Overall Teaching Effectiveness in the UIUC campus-wide student feedback forms.

GRE Instructor, Educational Equity Programs Office, Graduate College, UIUC

Developed and conducted classes for undergraduate minorities students who were doing research at UIUC over summer under the Summer Research Opportunities Program (SROP). The classes were for improving their performance on the quantitative (maths) section of GRE for their application to graduate school. May to August 2007.

Mentoring of Teaching Assistants, Dept. of Mathematics, UIUC

Served as a mentor to other graduate students who were teaching assistants in the department of Mathematics. Responsibilities included teaching observations, facilitating workshops on various teaching issues, discussion of teaching techniques and being available as a resource. Fall 2003, Spring 2004, Fall 2005, and Fall 2006.

Teaching with technology experience

1. Taught 6 semesters of calculus classes that were driven by lessons written in the *Mathematica* software. These lessons are part of the MathEveryWhere lessons developed by faculty at UIUC. For details about this suite of lessons, visit <http://www.matheverywhere.com>.
2. Math 125 (Linear Algebra for Business Students) was taught using TI calculators. The calculators were used for matrix operations and pivot operation needed in the simplex algorithm for linear optimization.

Curriculum Design Experience

In Fall 2007, when I taught Math 125, the course captain wanted to redesign the curriculum, in particular with relation to introducing the students to the idea of vectors, vector spaces, subspaces, and projections. I helped substantially with this process by giving ideas on the organization, inclusion/exclusion, and order of topics, and coming up with diagrams and examples.

Advanced Topics Seminar Organization

In spring 2002, I organized seminar for fellow graduate students on the topic of generating functions. I selected the list of topics from different sources, and had different interested students present a topic each in the specified order and then have everybody work on some exercises.

Mathematics Contest Judging

In every spring semester from 2001 to 2007 except two semesters, I have been a judge for the oral contest portion of the Illinois Council of Teachers of Mathematics High School State-wide Finals.

Tutoring/mentoring of gifted high-school students

In summer of 2006, I tutored two brothers (a 17 year old and a 14 year old) by having them work on interesting elementary combinatorics problems and mathematical puzzles.