

CURRICULUM VITAE

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EDUCATION

- Ph.D. Mathematics (Algebraic Geometry), Colorado State University, 1999
Dissertation: *On the Dimension of Planar Linear Systems*.
Advisor: Rick Miranda.
- M.S. Mathematics, Colorado State University, 1995.
Paper: *An Investigation of Binary Quadratic Forms*.
- B.A. Mathematics (minors in Physics and Philosophy),
Linfield College, 1991 (McMinnville, OR)

TEACHING EXPERIENCE

Fall 2001 - Present: Assistant Professor - Regis University

- Mathematics Courses Taught: Calculus I and II, Contemporary Mathematics (liberal arts mathematics), Introduction to Statistics, Linear Algebra, Applied Combinatorics, Cryptography, Modern Geometry, Abstract Algebra I and II, Mathematical Statistics I and II, Complex Analysis, Real Analysis, Differential Equations.
- I have also taught the Freshman Writing Seminar.

Fall 1999 - Spring 2001: Visiting Assistant Professor - Willamette University

- Courses Taught: Techniques of Mathematics (liberal arts mathematics), Brief Calculus, Calculus I and II, and Differential Equations, Linear Algebra, Discrete Mathematics, Euclidean and Non-Euclidean Geometry.

Fall 1993 - Summer 1999: Graduate Teaching Assistant - Colorado State University

- Assistant Director of the Individualized Mathematics Program (IMP):
Summer '94 - Summer '95, Fall '96.
The IMP offers approximately 2000 students the choice of self-paced or instructor led courses, video and computer resources, a walk-in tutoring center, and a testing center with a comprehensive test bank. Duties included managing day-to-day operations, supervising and training the undergraduate staff, responding to questions, complaints and appeals, and dealing with incidents of academic dishonesty.
- Full responsibility for one course per semester most other semesters and summers, including Math for Social Sciences, Calculus I and II, Calculus for Biological Sciences, and Modern Algebra.

PROFESSIONAL EXPERIENCE

- **Professional Organizations:** Member of the American Mathematical Society (AMS) and the Mathematical Association of America (MAA).
- **Talks and Writings:**
 - *Poncelet's Closure Theorem*, 2005 meeting, MAA Rocky Mountain Section.
 - *Reed-Solomon Codes and Compact Discs: How Abstract Algebra Helps You Hear the Flaming Lips*, 2003 meeting, MAA Rocky Mountain Section.
 - *Blowing Up the Projective Plane*, Willamette Mathematics Seminar, Fall 2000.
 - *Cremona Transformations of \mathbb{P}^2* , CSU Algebra Seminar, Spring 1998.
 - Organized a Computational Algebraic Geometry Seminar, Spring 2000; Willamette.
 - *The Dimension of Quasi Homogeneous Linear Systems with Multiplicity Four*, Communications in Algebra, volume 29, number 3, 2001, pages 1111-1130.
 - Co-author of six Instructor and Student's Solutions Manuals for various Smith-Minton Calculus texts (McGraw-Hill, 2006)
- **Professional Development:**
 - Regular participation in Rocky Mountain Section meetings of the MAA ('02-present) and Joint Meetings of the AMS/MAA ('02, '04, '05, and '07).
 - NSF Funded Participant: Park City Mathematics Institute on Geometric Combinatorics ('04).
 - Participant: Western Algebraic Geometry Seminar, Colorado State University, ('04).
 - Regis Mathematics Department Faculty Reading Group ('05-'07)
- **Curriculum Development:**
 - Chair of Calculus Text Selection Committee (Spring 2003).
 - Created new course in Cryptography (taught Spring '03, Fall '04, Fall '06).
 - Involved in planning new major capstone course, new Introduction to Logic and Proof course, and evaluation of lower division courses.
- **Service:**
 - Teaching Scholarship and Service Committee ('03-'05)
 - AAUP Executive Committee ('02-'05)
 - Academic Planning and Policy Council ('05-present)
 - Freshman Advising Group ('05-present)
 - Department's MAA Liaison
 - Department's Dual Degree Engineering Liaison
 - Web Content Manager for Mathematics Department ('01-'06) and AAUP ('02-present)
 - Mathematics Search Committee ('03, '05), Physics Search Committee ('05, '06), Chemistry Faculty Interview Committee ('05)
 - NCAA Institutional Self Study Review Committee ('06)

- **Student Activities**

- Received a 2005 SPARC grant for undergraduate research project on the mathematics of face recognition that resulted in three student conference presentations and an article published in a refereed online journal:
Anthony Giordano and Michael Uhrig. *Human Face Recognition Technology Using the Karhunen-Lóeve Expansion Technique*. Rose-Hulman Undergraduate Mathematics Journal, Vol. 7, Issue 1 (2006).
- Undergraduate summer research project in algebraic geometry ('06), resulting in a talk at the regional MAA meeting.
- Sponsored student poster presentation at Joint AMS/MAA Meeting in New Orleans, 2007.
- Students are invited to accompany me to local graduate school seminars. I encourage students to attend the regional MAA meeting, and I have sponsored many student talks.
- Successfully recommended students for participation in REU programs (Research Experience for Undergraduates) and the Park City Mathematics Institute.
- I coordinate the Regis University Putnam Examination team (which regularly earns non-trivial scores) and COMAP Mathematical Modeling team (with several Honorable Mentions and one Meritorious ranking).
- Co-coordinator of Regis University Math Department Pizza-and-Puzzles Nights, an informal math club meeting every other week in the evening.
- Fan and proud supporter of Regis University Athletics. Go Rangers!

UNPROFESSIONAL INTERESTS

- Sports: Watching Denver teams (all sports); participating in cycling, disc golf, hiking, handball.
- Music: Listening to anything interesting or challenging; playing guitar, keyboards, singing.