

Teaching Vitæ

Sandra Spiroff

High School Educational Experience:

Normandy School District, St. Louis

- Helped develop an alternative education program designed for students at least one year behind their academic peers
- Interned during summers within the community, for example (1) in the Diversity Department of the USPS in the City of St. Louis, and (2) in the Human Resources Department of the Regal Riverfront Hotel
- Taught Algebra I & II, Basic Math, Geometry, Math Analysis, and Calculus

University of Illinois at Champaign-Urbana

- Served as Research Assistant on a collaborative project between Danville High School and the education and mathematics departments of the University of Illinois to improve teacher preparation; see www.ed.uiuc.edu/meter

University of Utah, Salt Lake City

- Participated in Science Day, presenting the talk “Unique Factorization and the Roll of the Dice” to prospective college freshmen and their families
- Gave several presentations in the Math Circle program, engaging Utah high school students with strong mathematical interests and abilities in advanced topics

Undergraduate Educational Experience:

Saint Louis University, St. Louis

- Taught Intermediate Algebra and Business Calculus

University of Illinois at Champaign-Urbana

- Employed alternative teaching strategies in the *Calculus & Mathematics*, Active Learning, and Merit Workshop sequences; see www-cm.math.uiuc.edu, www.math.uiuc.edu/Bourbaki/Teaching/ActiveLearning.pdf, and www.math.uiuc.edu/MeritWorkshop, respectively
- Taught Business, Intermediate, and College Algebras, Calculus I & II

University of Utah, Salt Lake City

- Guided an independent study student in an REU program (Research Experience for Undergraduates) under the VIGRE grant (Vertical Integration of Research and Education)
- Participated in the Undergraduate Colloquium, presenting the talk “Unique Factorization” to mathematics majors
- Taught Business Algebra, Business Calculus, Calculus I, Abstract Algebra (Spring 2006)

Graduate Educational Experience:

University of Utah, Salt Lake City

- Mentored graduate students concerning mathematical content, graduate school, and employment
- Presented four talks in the Mini Course “Classical Problems in Commutative Algebra”: *Cohen-Macaulay Rings, Injective Modules and Gorenstein Rings, Auslander-Buchsbaum Formula, Chow Groups*
- Participated in the Graduate Colloquium, presenting the talk “The Divisor Class Group of a Noetherian Normal Domain” to graduate students and faculty
- Organized, and presented in, the Commutative Algebra Seminar

Computer Experience: Maple, Mathematica, Singular, Macaulay 2, C program