

## *Teaching Vita*

**Sandra Spiroff**

### **Graduate Educational Experience:**

#### University of Nebraska-Lincoln

- Developed and team taught an algebra course in the IMMERSE program
- Mentored pre-graduate students

#### 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

### **University Educational Experience:**

#### Seattle University, Seattle

- Developed and implemented undergraduate research projects
- Implemented and maintained the WeBWorK computer homework program
- Taught Calculus II and Abstract Algebra II

#### University of Illinois at Champaign-Urbana

- Won the Mathematics Teaching Award
- Employed alternative teaching strategies in the *Calculus & Mathematica*, Active Learning, and Merit Workshop sequences; [www-cm.math.uiuc.edu](http://www-cm.math.uiuc.edu), [www.math.uiuc.edu/Bourbaki/Teaching/ActiveLearning.pdf](http://www.math.uiuc.edu/Bourbaki/Teaching/ActiveLearning.pdf), and [www.math.uiuc.edu/MeritWorkshop](http://www.math.uiuc.edu/MeritWorkshop), respectively
- Taught Business, Intermediate, and College Algebras, Calculus I & II

University of Utah, Salt Lake City

- Received highest ranking as Calculus instructor Spring 2004
- Guided an independent study student in an REU program (Research Experience for Undergraduates) under the VIGRE grant (Vertical Integration of Research and Education)
- Presented the talk “Unique Factorization” in the Undergraduate Colloquium
- Used the WeBWorK computer homework program
- Taught Business Algebra, Business Calculus, Calculus I, Abstract Algebra

**High School Educational Experience:**

Normandy School District, St. Louis

- Co-developed 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](http://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

**Computer Experience:** C, Macaulay 2, Maple, Mathematica, WeBWorK