

JULIE B. KERR

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OBJECTIVE

To conduct applied mathematical research with an emphasis in combinatorics and graph theory, contributing creative problem solving skills to collaborative projects

EDUCATION

Ph.D., University of Michigan (expected May, 1997); conducted research on hyperplane arrangements under Prof. P. Hanlon

B.S., Washington State University (1992); majored in Mathematics; graduated *summa cum laude* and was named the top Math and Science student in graduating class

Budapest Semesters in Mathematics, Eötvös University (1991); took courses in combinatorics, graph algorithms, algebra, and conjecture and proof

EMPLOYMENT

- 1993-1996 **Center for Communications Research, LaJolla, CA**
Invited to work for four consecutive summers as part of a select team of mathematical researchers; researchers are expected to come up with new approaches to problems in algebra and combinatorics, using computer programming skills to simulate and test ideas and clearly communicating mathematical ideas in group brainstorming sessions and technical papers
- 1995-1996 **University of Michigan**
Taught pre-calculus and calculus
- 1992 **Rose-Hulman Institute of Technology**
Worked on problems in combinatorial algebra in the Research Experience for Undergraduates (REU) program
- 1980-1992 **Independent Tutor**
Provided one-on-one instruction in computer programming and mathematics to over 40 students of widely varying levels and abilities

PUBLICATIONS

“Hypergraph Representations and Orders of Cwatssets,” Rose-Hulman Technical Report No. MS TR 93-02 (1993). Presented at AMS/MAA joint meeting in San Antonio (1993) and Discrete Mathematics Conference in Boca Raton, FL (1994)

Five classified papers (CCR-IDA log numbers available upon request)

HONORS

- International Mathematical Olympiad trainee (West Point 1987, Annapolis 1988)
- National Merit Scholar
- Placed in top 24 in national Putnam Exam (1991)
- Alice T. Schafer award for undergraduate women in mathematics (1992)
- Phi Beta Kappa
- Washington State University College of Sciences and Arts Distinguished Achievement Award (1992)
- NSF Graduate Student Fellowship

ACTIVITIES

Volunteer for the Hospice of Washtenaw and the Ann Arbor Hands-on-Museum. Enjoys ferrets, Esperanto, cello, origami, and miniatures.