

Curriculum Vitae

David Jacob Wildstrom

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EDUCATION

Ph.D. in Mathematics, expected, University of California, San Diego Spring 2007
Thesis Advisor: Ron Graham

M.A. in Mathematics, University of California, San Diego Spring 2005

B.S. in Mathematics, Massachusetts Institute of Technology Spring 2002

Study Abroad, Budapest Semesters in Mathematics Spring 2001

RESEARCH INTERESTS

Combinatorial optimization, resource location on graphs, dynamic and multiple-agent optimization problems, searches and games on graphs.

EXPERIENCE

Teaching Assistant, University of California, San Diego 2002–present
Instructional experience in calculus courses, differential equations, linear algebra, number theory, mathematical modeling, and applied algebra. Some courses involved computer lab components.

Educational Webpage Designer, IMOJIM/mathestate 2003–2005
Designed and implemented DHTML and webMathematica resources for financial (consulting) mathematics education.

Proofreader, The Art of Problem Solving Winter 2005
Critically evaluated mathematical material and problems in the text *Introduction to Geometry*, by Richard Rusczyk.

Technical Coordinator, Center for Excellence in Education Summer 2004
Instructed students on use of library resources and software used in science and mathematics and administrated the academic computing environment for the Research Science Institute's west coast site.

PUBLICATIONS

The Sierpinski Variations: Self-Similar Crochet, *Making Mathematics with Needlework: Ten Papers and Ten Projects*, AK Peters, in preparation.

Cost Thresholds for Dynamic Resource Location, submitted for publication.

COMPUTER SKILLS

Fluency in MATLAB, Mathematica, Perl, C, (D)HTML, L^AT_EX, and most operating systems and application software. Familiarity with Maple, Java, C++, and Scheme.

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PROFESSIONAL SERVICE

San Diego Math Circle instructor and aide 2003–present

American Mathematics Competition Advisory Panel for AMC 10, AMC 12, and AIME 2000–present

Preuss School volunteer tutor in calculus and precalculus 2005–2006

PRESENTATIONS

Dynamic service scheduling on directed graphs, Joint Mathematics Meetings, New Orleans, LA (scheduled) January 2007

Look for Mathematical Properties of Hexaflexagons, Mathfest, Knoxville, TN (with Susan Wildstrom). August 2006

Cost Thresholds for Dynamic Resource Location, Mathfest, Knoxville, TN. August 2006

The Sierpinski Variations: Self-Similar Crochet, Joint Mathematics Meetings, Atlanta, GA. January 2005

PROFESSIONAL AFFILIATIONS

American Mathematical Society, Mathematical Association of America, Association for Women in Mathematics, Society for Industrial and Applied Mathematics

REFERENCES

Professor Ronald Graham, University of California, San Diego
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Professor Fan Chung Graham, University of California, San Diego
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Professor Audrey Terras, University of California, San Diego
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Professor David Meyer, University of California, San Diego
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