

Connections for Women: Computational Applications of Algebraic Topology

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[摘要] This intensive two-day workshop for women will introduce advanced graduate students and recent PhDs to current areas of research in Statistics and Computational Topology. It will consist of introductory mini-courses and talks, as well as a hands on computer session (bring your own laptops) August 31, 2006 to September 01, 2006. Organized By: Susan Holmes.

[关键词] Computational Applications; Algebraic Topology

August 31, 2006 to September 01, 2006 Organized By: Susan Holmes Parent Program: Computational Applications of Algebraic Topology

This intensive two-

day workshop for women will introduce advanced graduate students and recent PhDs to current areas of research in Statistics and Computational Topology.

It will consist of introductory mini-courses and talks, as well as a hands on computer session (bring your own laptops)

participants will be encouraged to bring their own data. The aim of the first mini-

course, to be given by S. Holmes, is to show how multidimensional scaling and other eigenvector based methods have been successful in finding structure in high dimensional data. Sarah Day will give a mini-

course on Topological methods for Dynamical Systems. Other talks will cover multidimensional statistical analyses and computational topology.

The workshop is part of the semester program Computational Applications of Algebraic Topology and some additional funding will be available for participants to attend an associated introductory Workshop on Computational Applications of Algebraic Topology from the 5th to 8th of September. The woman's work-

Program: August 31st, 2006 9:00-10:00 Susan Holmes, Part I: Multidimensional Data, Spectral Methods 10:30-

11:30 Sarah Day, Part I: Dynamical Systems 11:30-1:30 Lunch 1:30-2:30 Elizabeth Purdom: Kernel Methods 2:30-3:30 Computational Tools 3:30-

5:30 Hands On Workshop 6:00 Dinner September 1, 2006 9:00 - 10:00 S. Holmes Part II 10:30 - 11:30 S. Day Part II 11:30 - 1:00 Lunch 1:00 -

2:00 A. Collins, Computing Persistent Homology 2:30 - 3:30 TBA 4:00 - 5:00 Panels: Women in mathematics and statistics, Dual Career Studies

6:00 Dinner

A block of rooms has been reserved at the Hotel Durant. Please mention the workshop name and reference the following code when making reservations via phone, fax or e-

mail: KH0000. The cut-off date for reservations is August 1, 2006.

A block of rooms has been reserved at the Rose Garden Inn. Please reference the following Group Code when making reservations via phone, e-

mail or web (if booking via web, put the code in the Guest Comment field): CGMS28. The cut-off date for reservations is August 1, 2006.

Registration: Please register on-line by the deadline of August 24, 2006 if possible.

If you are applying for funding, the funding deadline is July 15, 2006 (The funding section of the form follows the registration section of the form).

Funding: Students, recent Ph.D.'s, women, and minorities are particularly encouraged to apply. Funding awards are made typically 6 weeks before the workshop begins. Requests received after the funding deadline are considered only if additional funds become available. Please see Travel funding rules

Important: Airline travel reimbursement restrictions Lodging Transportation from Oakland or San Francisco airports Directions to MSR1

Visa information for foreign visitors For more information: Questions about this workshop should be sent either by email to msr1-workshops@msri.org or by regular mail to: Connections for Women: Computational Applications of Algebraic Topology

Mathematical Sciences Research Institute 17 Gauss Way, Berkeley, CA 94720-5070 USA

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