

Peter Sheridan Dodds

Address c/o Columbia Earth Institute, Low Library, 535 West Broadway, MC 4335, New York, NY 10027.

Ph 1-212-854-9647 **Fax** 1-212-854-6309 **Email** dodds@ldeo.columbia.edu

Web smallworld.sociology.columbia.edu/~dodds/ **Citizenship** Australia

- Positions**
- [2000–] Columbia University** New York, NY
Postdoctoral Research Scientist, Columbia Earth Institute.
- [1994–2000] Massachusetts Institute of Technology** Cambridge, MA
PhD in Mathematics, June 2000. Supervisor: Prof. D.H. Rothman, Department of Earth, Atmospheric and Planetary Sciences.
Thesis title: "Geometry of River Networks."
- [1994] University of Melbourne** Melbourne, Australia
M.Sc. Departments of Mathematics and Physics. Supervisor: Dr. T. Prellberg.
Thesis title: "On the Thermodynamic Formalism for the Farey Map."
- [1988–93] University of Melbourne** Melbourne, Australia
Bachelor of Science (double major in Mathematics and Physics) and Bachelor of Electrical Engineering, both with First Class Honors.
- Awards**
- Housman award** for excellence in teaching, Department of Mathematics, MIT, 1999.
- Fulbright** Postgraduate Scholarship, 1994–present.
- Nominated for MIT's **Baker Teaching Award**, 1994–1995.
- Siemens Class Prize**, top student in Honors year of Electrical Engineering, University of Melbourne, 1992.
- Charles Abbott Scholarship**, Trinity College, University of Melbourne, 1991.
- Research**
- Initiated and developed program to understand the structure of river networks. Worked with both theory and analysis of real data to prove new, important results. Resolved longstanding problem relating animal metabolism to body size showing that widely accepted results were erroneous. Work will impact setting of medical and nutrition standards. Created and currently co-chair of the SPAM seminar (Simple Person's Applied Math seminar).
- Teaching**
- Recitation instructor** at MIT for first and second year Mathematics classes for six semesters, 1994–97. Taught calculus, differential equations and linear algebra.
- Lecturer** in MIT's Experimental Study Group for three semesters, 1995–96. Designed and taught complete courses for small groups of students with diverse needs.
- Computer experience**
- Installation and maintenance of Linux-based network. Proficient in C, Matlab scripting and C interface, Perl.
- Other**
- Sport-at-large, running, biking, swimming, outdoors, yoga, Pilates, writing, cooking, veganism, cryptic crosswords, Scrabble, image/web design.