John Doe

CONTACT INFORMATION

Courant Institute of Mathematical Sciences
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RESEARCH INTERESTS

Dynamical systems, probability, and ergodic theory– especially chaotic systems, hyperbolicity, and applications to mathematical physics.

EDUCATION

Courant Institute of Mathematical Sciences, New York University

Ph.D. Candidate, Mathematics (expected May XXXX)

- Dissertation Topic:
- Advisor:

M.S. in Mathematics, May 1996

University of California at Berkeley

B.A. in Mathematics, May 1992

- Highest honors in mathematics, highest distinction in general scholarship
- Minor in physics

PUBLICATIONS

J. Doe, *A simple piston problem in one dimension,* submitted to Nonlinearity (May 1998).

A. Smith and J. Doe, *Semiclassical generalization of the Darboux-Christoffel formula,* J. Math. Phys. **43** (1996), no. 10, 4668-4680.

CONFERENCE TALKS

A simple piston problem, 95^{th} Statistical Mechanics Conference, Rutgers University. (May 1996)

A simple piston problem, Workshop on Dynamical Systems and Related Topics, University of Maryland, College Park. (March 1996)

OTHER TALKS

The notorious piston problem and some recent results obtained by averaging, Séminaire interne, École normale supérieure de Lyon, France. (December 1995)

The notorious piston problem and some recent results obtained by averaging, Seminar in Nonlinear Systems, Stevens Institute of Technology. (November 1995)

Anosov's averaging theorem and an application, Young Person's Seminar, Time at work trimester on dynamical systems, Institut Henri Poincaré, Paris, France. (July 1995)

Ergodicity and averaging: A discussion of a theorem due to Anosov and a possible application, Dynamical System Seminar, New York University. (March 1995)

Teaching Experience

Spring	1995	Lecturer, Calculus I
Spring	1992	Teaching Assistant, Multivariable Calculus
Fall	1991	Teaching Assistant, Linear Algebra and Differential Equations

Honors and Awards

1992–1996	Henry MacCracken Fellowship New York University Graduate School of Arts and Sciences
1992–1996	National Science Foundation Graduate Research Fellowship
1992	Valedictorian, Mathematics Department University of California at Berkeley
1988–1992	Chancellor's Scholar, University of California at Berkeley
1988–1992	National Merit Scholar

Extended Professional Travel

Fall	1995	École normale supérieure de Lyon, Unité de mathématiques pures et appliquées, France
Summer	1995	Time at work trimester on dynamical systems, Institut Henri Poincaré, Paris, France

Graduate Coursework

- ❑ Real Variables
- ❑ Complex Variables
- ❑ Linear Algebra
- ❑ Ordinary Differential Equations
- ❑ Partial Differential Equations
- ❑ Harmonic Analysis
- ❑ Differential Geometry
- ❑ Topology
- ❑ Probability/Limit Theorems
- ❑ Ergodic Theory
- ❑ Dynamical Systems

Scientific Research Experience

1991–1992	Production of discrete variable representation sets. Advisor: A. Smith, Department of Physics, University of California at Berkeley.
1990–1991	Creation of signal processing algorithms for the Gamma Ray Energy Tracking Array. Advisor: K. Clemens, Nuclear Structures Group, E. O. Lawrence Berkeley National Laboratory.
1989–1990	Laser spectroscopy investigations of the reaction dynamics of HFCO. Advisor: C. Shafter, Department of Chemistry, University of California at Berkeley.

Relevant Skills

Languages: English, French

References

Lai-Sang Young, The Henry and Lucy Moses Professor of Science, Courant Institute of Mathematical Sciences, New York University, (212)998-3286, `lsy@cims.nyu.edu`