

LEA POPOVIC

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Citizenship: Canadian

EMPLOYMENT

Postdoc, Institute of Mathematics and its Applications, University of Minnesota · sep 2003 -
Visiting scientist, Mathematische Institut, FA Universitaet, Erlangen · june-july 2004

EDUCATION

Ph.D., University of California Berkeley, Department of Statistics · aug 2003
Thesis Advisor: D. Aldous
Princeton University, Program in Applied and Computational Mathematics · 1997-1998
Advisor: I. Daubechies
Hon.B.Sc., University of Toronto, Department of Mathematics · may 1997

RESEARCH INTERESTS

probability theory and applications: branching processes, random combinatorial structures, measure-valued diffusions, stochastic processes; applications to population genetics, evolutionary biology, and cell biology

RESEARCH GRANTS

[pending] **NSF-DMS** Focused Research Group (co-PIs: T. Kurtz, K. Ball, G. Rempala)

PAPERS AND PREPRINTS

[in preparation] "Multiscale Approximations for Reaction Networks" (with T. Kurtz).
[in preparation] "Genealogy of Catalytic and Mutually Catalytic Branching Models" (with A. Greven and A. Winter).
[in preparation] "Coherent Hierarchical Modeling of Biodiversity" (with D. Aldous).
"A Critical Branching Process Model for Biodiversity" (2004), (with D. Aldous), submitted.
"Asymptotic Genealogy of a Critical Branching Process" (2003), **Ann. of Appl. Probab.**, 14(4).

TEACHING EXPERIENCE

Graduate courses: Stochastic calculus with applications to mathematical finance · spring 1999 & 2003

Undergraduate courses: Introduction to probability and statistics for engineers · spring 1999

teaching assistant for graduate courses in probability theory, statistical learning theory, and undergraduate courses in statistics · 1998-2002

INVITED AND CONTRIBUTED TALKS

Bernoulli Society Congress -IMS Meeting, Barcelona · aug 2004

Stochastik und Dynamische Systeme, FAU, Erlangen · june 2004

Probability Seminar, University of Wisconsin, Madison · feb 2004

Probability Seminar, University of Minnesota, Minneapolis · oct 2003

Applied Math Seminar, University of Minnesota, Minneapolis · sep 2003

Meeting on Branching Processes, Oberwolfach, Germany · july 2003

AIM Workshop on Geometry of Biological Phenomena, Palo Alto · june 2003

Probability Seminar, University of California, Berkeley · oct 2002

AWARDS AND SCHOLARSHIPS

Loeve Prize in Probability, Department of Statistics University of California Berkeley · 2002

Outstanding Student Instructor Award, University of California Berkeley · 2000

University Fellowship, University of California Berkeley · 1998

University Science Fellowship, Princeton University · 1997

University Prize, Princeton University · 1997

NSERC Postgraduate Student Fellowship · 1997

Chancellors Medal, University of Toronto · 1997

University Scholarship, University of Toronto · 1996 &1995 &1994

Summer Undergraduate Research Fellowship, California Institute of Technology · 1996

NSERC Undergraduate Student Research Award · 1996 &1995