Christopher L. DuBois

Contact Information

6347 Adobe Circle
Irvine, CA 92617 USA
Home: (503) 320-0140 Email: duboisc@ics.uci.edu

Objective

I plan to explore the theoretical and computational foundations that will enable diagnostics, modeling, and forecasting for large, dynamic networks. Current research focuses on predictive models for massive social networks such as the blogosphere.

Education

University of California, Irvine, CA **Expected Completion 2013**
Ph.D., Statistics from the School of Information and Computer Sciences.
Advisor: Padhriac Smyth, Computer Science.

Current and Recent Coursework:
Probabilistic Learning, Statistical Methodology, Probability and Statistical Theory.

Pomona College, Claremont, CA GPA 3.74 **September 2002 - May 2006**
B.A. Applied Mathematics, Minor in Physics

Professional Experience

HealthOne Staffing, Portland, OR
Web Developer **August, 2007 - August, 2008**
I executed a six-month project integrating a hosted database solution with the company's new website, working closely with web designers, developers, upper management, nurses, and the team of recruiters to ensure that my development efforts satisfied all usability requirements.

CafeMax Cycling Team, Alcoy, Spain
Domestique **January, 2007 - August, 2007**
Raced for an amateur road cycling team, I competed in races all over Spain, including several 4-day tours support of the team leader.

Strategic Solutions, NW, Portland, OR
Consultant **June, 2006 - January, 2007**
Helped transition a paper company to new accounting software after they acquired six mills. Participated in accounts payable and software configuration tasks.

Previous Research

Cellular Automata Model for Tumor Growth: *With Professor Ami Radunskaya*
Collaborated on a mathematical model for melanoma growth. Presented results in several poster conferences. Helped document our methods and algorithms. Developed computer software for simulation and visualization of model results.

Tumor Modeling: *With Professor Vin de Silva*
Employed computational topology methods to compare scanning electron microscope images of vasculature in tumor tissue and normal tissue.

Honors

Pomona Scholar, Howard Hughes Medical Institute Grant, Pomona Summer Research Grant, National Merit Scholar, Sigma Xi Member, Eagle Scout.

Publications

Perry G. Schiro, Christopher L. DuBois, and Alfred S. Kwok. Large capture-range of a single-beam gradient optical trap. Optics Express, 11 (25) p.3485. 2003.

Past Coursework and Skills

- Mathematics Courses: Statistical Linear Models, Operations Research, Applied Analysis, Probability, Mathematical Modeling, Differential Equations, Real Analysis, Abstract Algebra, Linear Algebra, Multivariable Calculus, Thesis on Computational Topology.
- Computer Science Courses: Introduction to Computer Science, Fundamentals of Computer Science.
- Familiarity with R, Matlab, Java, Python, .Net, MySQL, Linux.

References

Available upon request.