

LEONID V. ALEKSEYEV

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SUMMARY

Excellent problem-solver with a focus on data analysis and computational modeling. Outstanding technical and communication skills demonstrated by peer-reviewed publications and conference presentations.

EDUCATION

PRINCETON UNIVERSITY, Princeton, NJ

Ph.D. in Electrical Engineering, 2011

GPA: 3.8

STANFORD UNIVERSITY, Stanford, CA

M.S. in Electrical Engineering, 2003

B.S. in Physics; Mathematics minor, 2002

GPA: 3.7

SAT I: Math 800, Verbal 760

EXPERIENCE

Research and Problem-Solving

Data Mining and Analytics Engineer, **ImageShack Corp.**, Los Gatos, CA (2009 – 2010)

Studied and optimized data access patterns for an ultra-high traffic online media hosting startup.

Deployed Hadoop distributed computing system to run analytics on terabyte-scale datasets.

Summer Associate, Quantitative Statistical Arbitrage, **Merrill Lynch**, New York, NY (2008)

Improved volatility predictors for a high-frequency trading strategy. Cleaned and analyzed tick-level market data, developed and validated statistical models using Perl and R under Linux.

Research Assistant, Department of Electrical Engineering, **Princeton University** (2004 – 2011)

Performed theoretical modeling of nanoscale structures with the goal of creating novel optical devices.

Employed numerical methods in Matlab and Mathematica, as well as analytical techniques.

Communication and Leadership

Teaching Assistant, Department of Physics, **Stanford University**, and Department of Electrical Engineering, **Princeton University** (2002 – 2007)

Led recitation sessions for courses in optics, waves and electronics. Prepared weekly discussion material; reviewed and graded assignments. Trained students in effective technical writing.

Physics Instructor, **EPGY Distance Learning Program**, Stanford, CA (2000 – 2002)

Taught advanced physics topics and coordinated activities in a summer camp for gifted students.

President, Society of Physics Students, **Stanford University** (2002 – 2003)

Organized society of undergraduate physics majors. Coordinated the faculty speaker series, social outings and community outreach activities.

PUBLICATIONS

Co-authored ten publications in leading peer-reviewed scientific journals; two book chapters.

Conducted multiple oral and poster presentations at conferences in the US and overseas.

COMPUTER SKILLS

R, Matlab, Mathematica, C, C++, Java, Perl, Python, SQL, Excel

HONORS

President's Scholar, Stanford University

Winner of the 1998 Greater St. Louis Science Fair