

Michael John Twardos, Ph.D.

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Computer Skills

Analytic Software: Mathematica, Matlab, R, IDL,
Visualization: Flash (Flare, Papervision), Processing, Google API, Javascript
Serverside: PHP, Java, Python, C#, Oracle, MySQL

Experience

Analytical Scientist

Slide Inc. – San Francisco, CA May 2009-Present
Population modeling, viral optimization, pricing of virtual goods, visualization of user flows, subscription analysis, decision analysis of users in online social games.

Player Data Analyst

The Sims Online - Electronic Arts, Redwood Shores, CA
Spore -Maxis Studios, Emeryville, CA April 2007-April 2009
Developed algorithms for content rating, search and recommendation. Implemented metrics to determine social engagement and identify player types. Visualized creation distribution, leader boards, rare events, hot topics used or both internal and community needs. RESTful API development.

Consultant

Santa Fe Institute, Santa Fe, NM June 2006-March 2007
Built tools to analyze behavioral regularities in stock market data. Implemented techniques in graph theory and network analysis.

Researcher

Los Alamos National Laboratory, Los Alamos, NM March 2005-March 2007
Analysis and visualization of large data sets. Neural networks and principal component analysis for machine learning, classification and pattern recognition.

Education

University of California at Irvine, Irvine, CA,
Doctor of Philosophy in Physics, February 2005
Masters of Science in Physics and Chemistry, June 2002

Rutgers College, New Brunswick, NJ
Bachelor of Science in Physics, May 2000

