Joshua Reich

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EDUCATION:

Graduate School of Arts and Sciences, Columbia University, New York, NY
Advisors: Vishal Misra and Dan Rubenstein
Ph.D. in Computer Science, expected May 2009.
M.Phil. in Computer Science, February 2006.

School of Engineering and Applied Science, Columbia University, New York, NY
M.S. in Computer Science, May 2004.

Columbia College, Columbia University, New York, NY
B.A. in Mathematics, May 2002.
Honors: Magna Cum Laude

AWARDS AND FELLOWSHIPS:

Best Student Demo, ACM MobiCom/MobiHoc '07 Student Demo Competition
Extraordinary Teaching Assistant Award (Fall '05, Spring '06)
National Science Foundation, GK-12 Graduate Teaching Fellow
Member of Phi Beta Kappa: Columbia College, Columbia University
Charter Member of Golden Key Honor Society: CC, Columbia University
National Merit 2000 Scholarship Winner

TEACHING EXPERIENCE:

Columbia University, New York, NY
Instructor, 2005-2006
Taught the course "Introduction to Programming Languages: C++". Formulated course structure and requirements. Lectured and administered all grades.

Teaching Assistant, 2005-2006
Assisted Professor Jonathan Gross in his graduate-level courses "Combinatorial Theory" and "Graph Theory". Graded written homework and examinations. Held office hours and review sessions. Designed and administered website and electronic resources.

RELATED EXPERIENCE:

Sandia National Labaratories, Livermore, CA
Summer Intern, Summer 2006
Worked on statistical analysis of NetFlow data for network anomaly detection.
Assessed collaboration equipment solutions.

Sandia National Labaratories, Albuquerque, NM
Summer Intern, Summer 2005
Built malware fingerprinting toolkit. Worked on security simulations framework. Coded recursive descent disassembler for Intel x86 platform

PUBLICATIONS:

Joshua Reich, Vishal Misra and Dan Rubenstein, **Roomba MADNeT: a Mobile Ad-hoc Delay Tolerant Network Testbed**, *MC2R: Mobile Computing and Communications Review*, ACM Sigmobile, To appear.

Joshua Reich, Vishal Misra and Dan Rubenstein, **The Time Correlated Update Problem**, *Performance Evaluation Review*, ACM Sigmetrics, Smirni, Evgenia, ACM Special Interest Group on Measurement and Evaluation, Volume 35, Number 2, pp. 33-35, September, 2007.

Joshua Reich, Vishal Misra and Dan Rubenstein, **The Time Correlated Update Problem**, *MAMA*, ACM, San Diego, CA, June, 2007.

Joshua Reich, Vishal Misra and Dan Rubenstein, **MADNeT Testbed**, *Joint Mobicom / Mobihoc Student Demo Competition*, ACM, Montreal, QC, September, 2007, Best Student Demo Award Recipient

Reich, J. and Sklar, E., **Robot-Sensor Networks for Search and Rescue**, In *IEEE International Workshop on Safety, Security and Rescue Robotics*, Gaithersburg, MD. August 2006.

Reich, J. and Sklar, E., **Toward automatic reconfiguration of robot-sensor networks for urban search and rescue**. In *First International Workshop on Agent Technology for Disaster Management (ATDM): Fifth International Joint Conference on Autonomous Agents and Multiagent Systems*, Hakodate, Japan. ACM, May 2006