

Ricardo A. Baratto

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RESEARCH INTERESTS Remote display systems, desktop virtualization, thin-client computing, ubiquitous and pervasive computing.

EDUCATION

- ◇ **Columbia University**, New York, NY, USA
Ph.D. in Computer Science, graduation date: October 2007
Advisor: Jason Nieh
- ◇ **Columbia University**, New York, NY, USA
M.S. in Computer Science, Oct. 2003
- ◇ **University of Puerto Rico**, Rio Piedras, PR.
B.S. in Computer Science - Magna Cum Laude, May 2001.
- ◇ **Scholarships**
 - Columbia University Presidential Fellowship (Sept. 2001 – Aug. 2005)
 - University of Puerto Rico Computer Science NSF Fellowship (Aug. 2000 - May 2001)

PUBLICATIONS

- ◇ Oren Laadan, Ricardo Baratto, Dan Phung, Shaya Potter, and Jason Nieh. DeJaView: A Personal Virtual Computer Recorder. In *Proceedings of the Twenty-first ACM Symposium on Operating Systems Principles (SOSP 2007)*, Stevenson, WA, October 14-17, 2007.
- ◇ Kenneth Ocheltree, Steven Millman, David Hobbs, Martin McDonnell, Jason Nieh, and Ricardo A. Baratto. Net2Display: A Proposed VESA Standard for Remoting Displays and I/O Devices over Networks. In *Proceedings of the 2006 Americas Display Engineering and Applications Conference (ADEAC 2006)*, Atlanta, Georgia, October 23-26, 2006.
- ◇ Joeng Kim, Ricardo A. Baratto, and Jason Nieh. An Application Streaming Service for Mobile Handheld Devices, In *Proceedings of the IEEE International Conference on Services Computing (SCC 2006)*, Chicago, IL, September 18-22, 2006.
- ◇ Joeng Kim, Ricardo A. Baratto, and Jason Nieh. pTHINC: A Thin-Client Architecture for Mobile Wireless Web. In *Proceedings of the Fifteenth International World Wide Web Conference (WWW 2006)*, Edinburgh, Scotland, May 23-26, 2006.
- ◇ Debra Cook, Ricardo A. Baratto, and Angelos Keromytis. Remotely Keyed CryptoGraphics: Secure Remote Display Access Using (Mostly) Untrusted Hardware. In *Proceedings of the Seventh International Conference on Information and Communications Security (ICICS 2005)*, Beijing, China, December 10-13, 2005.
- ◇ Ricardo A. Baratto, Leonard Kim, and Jason Nieh. THINC: A Virtual Display Architecture for Thin-Client Computing. In *Proceedings of the Twentieth ACM Symposium on Operating Systems Principles (SOSP 2005)*, Brighton, United Kingdom, October 23-26, 2005.
- ◇ Ricardo A. Baratto, Shaya Potter, Gong Su, and Jason Nieh. MobiDesk: Mobile Virtual Desktop Computing. In *Proceedings of the Tenth Annual ACM International Conference*

on Mobile Computing and Networking (MobiCom 2004), Philadelphia, PA, USA, Sept 26-Oct 1, 2004.

Best Student Paper Award.

- PROFESSIONAL ACTIVITIES ◇ Member of VESA Net2Display working group. The group is developing a VESA standard for remoting displays and I/O devices over networks.
- RESEARCH PROJECTS ◇ Project leader of THINC, a remote display system for X-based applications.
Advisor: Jason Nieh. Network Computing Laboratory - Columbia University (New York, NY, USA. September 2001 - present)
- ◇ Developed SNMP support for the SIP Express Router.
Advisor: Dorgham Sisalem. Fokus: Fraunhofer Insitute for Open Communication Systems (Berlin, Germany. May 2002 - August 2002)
- ◇ Member of the group developing a network monitoring and intrusion detection system for the Internet2 network of the University of Puerto Rico.
Advisor: Guy Cormier. High Performance Computing Facility - U.P.R. (San Juan, Puerto Rico. August 2000 – July 2001)
- ◇ Initiated project to investigate the use of stereoscopic visualization techniques and equipment as teaching aids.
Advisor: George Barbastathis. Mechanical Engineering Dept, Massachusetts Institute of Technology. (Cambridge, MA, USA. May 2000 – August 2000)
- ◇ Designed, built and administered 16-node Linux beowulf cluster computer.
Advisor: Ronald E. Kulak. Reactor Engineering Divison, Argonne National Laboratory, DOE. (Chicago, IL, USA. January 2000 – May 2000)
- ◇ Created framework for drawing 3D graphics in the GeoWebCad project, a distributed CAD/CAM system.
Advisor: Fuhua Cheng. Graphics and Geometric Modeling Lab, University of Kentucky (Lexington, KY, USA. May 1999 – August 1999)
- WORK EXPERIENCE ◇ **Member of Technical Staff**, VMware (June 2006 - August 2006)
- ◇ **System Administration Assistant**, High Performance Computing Facility, U.P.R. (August 2000 – July 2001)
- Set up and maintenance of teaching/visualization lab's main NFS/NIS Server
 - General maitenance of Linux computers used in visualization lab
- ◇ **MIS Assistant**, MIS Office, School of Natural Sciences, U.P.R. (November 1998 – December 1999)
- School's network infrastructure and equipment maintenance
 - System administration assistance and technical support, primarily for Linux users
- SKILLS ◇ C
- ◇ X Window System programming and server architecture
- ◇ bash, perl, python, Unix TCP/IP, OpenGL
- ◇ Linux, BSDs
- ◇ Native Spanish speaker, fluent spoken/written English, basic German
- REFERENCES Available on request.