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Joseph Lorenzo Hall

Education

2008 (*Expected*) **Ph.D.**, School of Information; University of California, Berkeley
 2005 **M.I.M.S.**, School of Information; University of California, Berkeley
 2003 **M.A.**, Astrophysics; University of California, Berkeley
 2000 **B.S.**, Physics and Astronomy; Northern Arizona University

Supplementary Education

Fall 2003 - Fall 2006 Samuelson Law, Technology and Public Policy Clinic
 Boalt Hall School of Law (University of California, Berkeley)
 Internet Law Program
 Summer 2003 The Stanford Center for Internet and Society at Stanford Law School (Stanford Law School and Harvard Law School)
 Summer Session Program
 Summer 2000 International Space University, Summer Session Program (Universidad Técnica Federico Santa María (Valparaiso, Chile))

Experience

Research Experience

Spring 2005 - Present Graduate Student Researcher, University of California, Berkeley.
Description: Election law and policy research with ACCURATE NSF center
Supervisor: Deirdre K. Mulligan; Boalt Hall School of Law
 Summer 2004 Graduate Student Researcher, University of California, Berkeley.
Description: Information consumption research
Supervisor: Peter Lyman; School of Information Management and

Systems
 Graduate Student Researcher, University of California, Berkeley.
 September 2002 - Fall 2003 *Description:* Spectroscopic binary Brown Dwarf research
Supervisor: Gibor Basri; Department of Astronomy

May 2002 - September 2002
 Graduate Student Researcher, University of California, Berkeley.
Description: Developed spectroscopic labeling tool
Supervisor: James Graham; Department of Astronomy

September 2001 - May 2002
 Research Assistant, University of California, Berkeley.
Description: Further Titan particulate research
Supervisor: Caitlin A. Griffith; Department of Astronomy

May 2000 - September 2001
 Research Technician, Northern Arizona University.
Description: Investigated particulates in Titan's atmosphere
Supervisor: Caitlin A. Griffith; Physics and Astronomy Department

September 1997 - May 2000
 Research Assistant, Northern Arizona University.
Description: Investigated clouds in the atmosphere of Titan
Supervisor: Caitlin A. Griffith; Physics and Astronomy Department

Teaching Experience

Teaching Assistant
 Course: InfoSys 296A-2 -- Open Source Development and Distribution of Digital
 Fall 2005 Information: Economic, Legal and Social Perspectives
Instructors: Pamela Samuelson, Steven Weber, Mitchell Kapor; University of California, Berkeley

Teaching Assistant
 Spring 2005 Course: InfoSys 296A-2 -- Peer-to-Peer (P2P) Technology: Legal and Policy Challenges
Instructor: Pamela Samuelson; University of California, Berkeley

Head Graduate Student Instructor
 Spring 2004 Course: Astro 10 -- Introduction to General Astronomy
Instructor: Steven Stahler; University of California, Berkeley

Graduate Student Instructor
 Fall 2003 Course: Astro 10 -- Introduction to General Astronomy
Instructor: Gibor Basri; University of California, Berkeley

Graduate Student Instructor
 Fall 2002 Course: Astro 10 -- Introduction to General Astronomy
Instructor: Alexei Filippenko; University of California, Berkeley

Graduate Student Instructor
 Spring 2002 Course: Astro 12 -- The Planets
Instructors: Imke de Pater, Raymond Jeanloz; University of California, Berkeley

Graduate Student Instructor
 Fall 2002 Course: Astro 10 -- Introduction to General Astronomy
Instructor: Alexei Filippenko; University of California, Berkeley

Academic Tutor
 Spring 1997 Course: Math -- Calculus I, II and III
Instructor: North Learning Assistance Center; Northern Arizona University

Awards and Honors

- 2001 - 2004 Berkeley Edge Academic Fellowship
University of California, Berkeley
- 2001 - 2002 Honorable Mention, Ford Foundation Predoctoral Fellowship For Minorities
The Ford Foundation
- 2000 Physics and Astronomy Department Senior Bedwell Scholar
Northern Arizona University
- 2000 Outstanding Student of Physics and Astronomy
Northern Arizona University
- 2000 Henry Hooper Undergraduate Research Grant
Northern Arizona University
- 1998 - 1999 Physics and Astronomy Department Chair's Scholar
Northern Arizona University
- 1999 Physics and Astronomy Department Vesto M. Slipher Scholar
Northern Arizona University

Extracurricular Activity

- Spring 2006 - Present Member
National Committee for Voting Integrity
- 2005 Graduate Student Representative
Berkeley Information Technology Review Committee
- Fall 2004 - Present Member
Verified Voting Foundation Advisory Board
- Fall 2004 - Present Graduate Student Representative
eBerkeley Steering Committee
- 2002 - 2005 Graduate Student Representative
KALX Radio Policy Advisory Board
- 2000 - Present Member
Sigma Delta Pi, National Collegiate Spanish Honor Society
- 2002 - 2004 Graduate Student Representative
Educational Technology Committee (eBerkeley)
- 2003 ETC Representative
Student Technology Committee
- 2003 Parliamentarian and Delegate
Graduate Assembly (GA) of the University of California, Berkeley
- 2003 Chair
GA Organization and Rules Committee
- 2003 Organization and Rules Representative
GA Executive Committee

Publications

- Aaron Burstein and Joseph Lorenzo Hall, Unlike Ballots, EAC Shouldn't Be Secretive. *Roll Call*, 22:Jan, (2007). *available at:*
http://josephhall.org/papers/Burstein_Hall-Roll_Call_2007-01-26.pdf
- Aaron Burstein, Joseph Lorenzo Hall, Deirdre Mulligan, Public Comment on the Manual for Voting System Testing & Certification Program; Submitted to the Election Assistance Commission on behalf of ACCURATE and listed affiliates by the Samuelson Law, Technology and Public Policy Clinic. *available at:*
http://josephhall.org/papers/ACCURATE_VSTCP_comment.pdf
- Deidre K. Mulligan, Aaron Burstein, Joseph Lorenzo Hall and David Snyder, Counting on Security. *Sacramento Bee*, 5:Nov, (2006). *available at:*
http://josephhall.org/papers/Counting_on_security-sacbee.pdf
- Joseph Lorenzo Hall, Design and the Support of Transparency in VVPAT Systems in the US Voting Systems Market; Unpublished. *available at:*
http://josephhall.org/papers/jhall_vvpat-design-transparency.pdf
- Joseph Lorenzo Hall, Transparency and Access to Source Code in E-Voting in *USENIX/ACCURATE Electronic Voting Technology Workshop* (2006). *available at:*
http://josephhall.org/papers/jhall_evt06.pdf
- Erica Brand, Cecilia Walsh, Joseph Lorenzo Hall and Deirdre K. Mulligan, Public Comment on the 2005 Voluntary Voting System Guidelines; Submitted to the Election Assistance Commission on behalf of ACCURATE and listed affiliates by the Samuelson Law, Technology and Public Policy Clinic. *available at:* http://josephhall.org/papers/2005_vvsg_comment.pdf
- Lillie Coney, Joseph Lorenzo Hall, Poorvi L. Vora and David W. Wagner, Towards a Privacy Measurement Criterion for Voting Systems in *National Conference on Digital Government Research* (2005). *available at:* http://josephhall.org/papers/poster_VotingPrivacy.pdf
- Arthur M. Keller, Alan Dechert, Karl Auerbach, David Mertz, Amy Pearl, and Joseph Lorenzo Hall, A PC-Based Open-Source Voting Machine with an Accessible Voter-Verifiable Paper Ballot in *USENIX '05, FREENIX track* (2005). *available at:*
<http://josephhall.org/papers/electronic-voting-machine.pdf>
- Deirdre K. Mulligan and Joseph Lorenzo Hall, Preliminary Analysis Of E-Voting Problems Highlights Need For Heightened Standards And Testing; National Research Council's Committee on Electronic Voting. *available at:*
http://josephhall.org/papers/NRC-CSTB_mulligan-hall_200412.pdf
- Joseph Lorenzo Hall, Electronic Voting Machine Information Sheets; Electronic Frontier Foundation / Election Protection Coalition. *available at:*
<http://www.eff.org/Activism/E-voting/#info-sheets>
- Arthur M. Keller, David Mertz, Joseph Lorenzo Hall, and Arnold Urken, Privacy Issues in an Electronic Voting Machine in *Privacy and Technologies of Identity: A Cross-Disciplinary Conversation*, Katherine J. Strandburg and Daniela Stan Raicu (eds.) , Springer Science+Business Media: New York, New York (2006). *available at:*
<http://josephhall.org/papers/privacy-electronic-voting-chapter.pdf>
- Arthur M, Keller, David Mertz, Joseph Lorenzo Hall, and Arnold Urken, Privacy Issues in an Electronic Voting Machine in *ACM Workshop on Privacy in the Electronic Society* (2004). *available at:* <http://josephhall.org/papers/privacy-electronic-voting-WPES-2004.pdf>
- Joseph Lorenzo Hall, Columbia and Challenger: Organizational Failure at NASA. *Space Policy*, 4:19, 239-247 (2003). *available at:* <http://josephhall.org/papers/nasa.pdf>
- Caitlin A. Griffith, Joseph Lorenzo Hall, Eliot F. Young, Jason Cook and Pascal Rannou, Particles on Titan from the Stratopause to the Troposphere in *American Astronomical Society, Division of Planetary Science Meeting*, 33 (2001).

- Caitlin A. Griffith, Joseph Lorenzo Hall, and Thomas R. Geballe, Detection of Daily Clouds on Titan. *Science*, 5491:290, 509-513 (2000). *available at:* http://josephhall.org/Science_290_509.pdf
- Ray A. Williamson, Joseph Lorenzo Hall et al., **El Niño and The Southern Oscillation: A Global Challenge, Keys to a Solution**. Fermín Pastén Pastén; Valparaiso, Chile (2000).
- Caitlin A. Griffith, Joseph Lorenzo Hall, Thomas R. Geballe, Weather on Titan in *American Astronomical Society, Division of Planetary Science Meeting*, 32 (2000).
- Caitlin A. Griffith and Mark S. Marley, (eds.), **From Giant Planets to Cool Stars, ASP Conference Series**. Astronomical Society of the Pacific; San Francisco, CA (2000).

Presentations and Testimony

- Joseph Lorenzo Hall, "Election Technology and Problems in the Field". *Election Protection Coalition 2006 Technology Field Attorney Training*; Fenwick & West LLP; Morrison & Forrester LLP (2006). *available at:* http://josephhall.org/papers/EPC_2006_techproblems.pdf
- Joseph Lorenzo Hall, "Barriers to Tor Research at UC Berkeley". *Exploring the Privacy Implications of Trustworthy Information Systems Workshop for TRUST Researchers*; NSF TRUST Center (UC Berkeley) (2006). *available at:* <http://josephhall.org/papers/torpaper.pdf>
- Joseph Lorenzo Hall, "Background on Recent Diebold Election Systems, Inc. (DESI) Vulnerabilities". *NCVI Briefing for Congressmembers and Staff*; United States Congress (2006). *available at:* http://josephhall.org/papers/DESI_vulns_background_briefing-20060607.pdf
- Joseph Lorenzo Hall, "Electronic Voting Tutorial: An Update on HAVA Implementation and an Introduction to Types of Voting Systems". *Computers, Freedom and Privacy 2006*; Association for Computing Machinery (2006). *available at:* http://josephhall.org/papers/jhall_cfp2006-20060502.pdf
- Joseph Lorenzo Hall, Deirdre K. Mulligan, "Prepared Statement Of A Center for Correct, Usable, Reliable, Auditable, Transparent Elections (ACCURATE): Open Source Software – Does It Have A Place In California's Electoral System?". *Elections, Reapportionment & Constitutional Amendments Committee*; California Senate (2006). *available at:* http://josephhall.org/papers/JHall_DMulligan_testimony_CASenate-20060208.pdf
- Yuri Taktheyev, Joseph Lorenzo Hall, "Blogging Together: Digital Expression in a Real-Life Academic Community". *Social Software in the Academy Workshop*; University of Southern California (2005).
- *Plenary Session: "Blogging in the Classroom: Successes, Failures and New Frontiers"*. Joseph Lorenzo Hall (*chair*), Barbara Ganley, Kathleen Fitzpatrick, Nicole Ellison, *Social Software in the Academy Workshop*; University of Southern California (2005).