

EDEN MEDINA

SCHOOL OF INFORMATICS AND COMPUTING
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EMPLOYMENT

Indiana University

Assistant Professor of Informatics
School of Informatics and Computing
Adjunct Assistant Professor of History
College of Arts and Sciences

Bloomington, IN (2005 – present)

EDUCATION

Massachusetts Institute of Technology

Ph.D.

Cambridge, MA (2005)

History and Social Study of Science and Technology

Dissertation title: "The State Machine: Politics, Ideology, and Computation in Chile, 1964-1973"

Dissertation committee: David A. Mindell (advisor), Hugh Gusterson, and Peter Winn.

Fields: History of Computing; Social Studies of Science and Technology; Modern Latin American History.

Princeton University

B.S.E.

Princeton, NJ (1997)

Major: **Electrical Engineering** with a concentration in signal and image processing.
Certificate in Women's Studies.

RESEARCH IN PROGRESS

Eden Medina, *Cybernetic Socialism: Technology and Politics in the Chilean Revolution*, Cambridge: MIT Press, under contract.

Eden Medina, "Chile by Number: Computation and Development during the Presidency of Eduardo Frei Montalva," *Technology and Culture*, (in revision).

PUBLICATIONS

Articles

Eden Medina, "Big Blue in the Bottomless Pit: The Early Years of IBM Chile," *IEEE Annals of the History of Computing* 30 (2008): 26-41.

Eden Medina, "Designing Freedom, Regulating a Nation: Socialist Cybernetics in Allende's Chile," *Journal of Latin American Studies* 38 (2006): 571-606. Awarded the 2007 IEEE Life Members' Prize in Electrical History.

Eden Miller, "Freedom in Code: The Birth of the Chilean Free Software Movement," *ReVista Harvard Review of Latin America* 3 (2004): 23-25.

Book Chapters

Eden Medina, "Secret Plan Cybersyn," in *Conspire. Transmediale Parcours 1*, edited by Stephen Kovats and Thomas Munz. Frankfurt, Germany: Revolver Books, 2008.

Eden Medina, "Ballet Slippers," in *Evocative Objects: Things We Think With*, edited by Sherry Turkle. Cambridge: MIT Press, 2007.

Eden Medina, "Democratic Socialism, Cybernetic Socialism: Making the Chilean Economy Public," in *Making Things Public: Atmospheres of Democracy*, edited by Bruno Latour and Peter Weibel. Cambridge: MIT Press, 2005.

Eden Miller Medina and David Mindell, "Engineering and Computer Science in Action: 'The Structure of Engineering Revolutions'," in *Using History in Computer Science Education*, edited by Atsushi Akeru and William Aspray, Washington, D.C.: Computer Research Association, 2004.

Essays and Editorials

Eden Medina, "Computer Memory, Collective Memory: Recovering History through Chilean Computing," *IEEE Annals of the History of Computing* 27 (2005): 102-104.

Eden Miller Medina, "Beyond the Ballot Box: Computer Science Education and Social Responsibility," invited editorial, *Inroads –The ACM SIGCSE Bulletin* 36 (2004): 7-10.

Encyclopedia Entries and Reviews

Eden Medina, "Computer Industry," in *Encyclopedia of U.S. Labor and Working Class History*, edited by Eric Arnesen. New York: Routledge, 2007.

Eden Miller, "Decrypting Mathematics," book review of *In Code* by Sarah and David Flannery, *IEEE Technology and Society Magazine* 21 (2002): 9-10.

CONFERENCE PAPERS

Eden Medina, "Negotiating Chilean National Politics with Global Corporate Culture: A History of How IBM became a Country within Other Countries," *Conference of the Latin American Studies Association*, Rio de Janeiro, June 2009. Organizer of the panel, "Technology/Culture/Power: Multidisciplinary Perspectives on Information Technology in Latin America."

Eden Medina, "Cybernetic Capitalism," *Workshop on "Teorías, metodologías y prácticas interdisciplinarias sobre innovación y empresa,"* El Centro de Investigaciones Interdisciplinarias en Ciencias y Humanidades (CEIICH), Universidad Nacional Autónoma de México, Mexico City, September 8, 2008.

Eden Medina, "Fighting the Status Quo: Marx's Capital and the Cybernetics of Beer," *Annual Meeting of the Society for the History of Technology*, Washington, D.C., October 2007.

Eden Medina, "Feeding the Chilean Bureaucracy: Technology for a Government of Advisors," *Annual Meeting of the Society for the Social Studies of Science*, Vancouver, November 2006.

Eden Medina, "Meeting the Goals of the World Summit on the Information Society with Informatics Education," *United Nations World Summit on the Information Society*, Tunis, November 2005.

Eden Medina, "Making the 'Ugliest Automobile in History': Technology, Ideology, and the Citroën Yagán," *Annual Meeting of the Society for the History of Technology*, Minneapolis, November 2005.

Eden Miller Medina, "The Cybernetic Road to Socialism: Computation, Ideology, and Governance in Chile, 1971-1973," *Conference of the Latin American Studies Association*, Las Vegas, October 2004. Organizer and chair of the panel, "Reading Technology, Re-reading History."

Eden Miller, "Networks of Governance: Computers, Politics and Economic Planning in Chile," *Annual Meeting of the Society for the Social Studies of Science*, Atlanta, October 2003. Organizer and chair of the panel, "Computing Like a State: Information Technology and Governance in the Developing World."

Eden Miller, "(Inter)national Technology: Computation and Socialist Change in Chile," *AAAS Conference "The Local and the Global: Contexts in Science and Technology"*, Washington, D.C., April 2003.

Eden Miller, "Designing Freedom, Regulating a Nation: Socialist Cybernetics in Allende's Chile," *Annual Meeting of the Society for the History of Technology*, San Jose, October 2001.

Eden Miller, "Cybernetic Synergy: Chile, Great Britain, and the development of 'revolutionary computing'," *XXIst International Congress of History of Science*, Mexico City, July 2001.

J.E. Miller and S. Dutta Roy, "A Generalized Algorithm for Text Detection in Digital Grayscale Images," *IEEE Region I Conference*, Princeton, April 1997 (awarded prize in IEEE student paper contest).

INVITED PRESENTATIONS

"Cybernetics and Revolution," Harvard-MIT-Yale Cyberscholar Working Group, Berkman Center for Internet and Society, Harvard Law School, February 19, 2009.

"Socialismo cibernético: la utopía de Salvador Allende," public lecture, Universidad Nacional Autónoma de México, Mexico City, September 9, 2008.

"Socialismo cibernético, socialismo democrático: la utopía de sustituir el mercado por un sistema cibernético en Chile durante el gobierno de Salvador Allende, 1970-1973," Workshop on teorías, metodologías y prácticas interdisciplinarias sobre innovación y empresa, El Centro de Investigaciones Interdisciplinarias en Ciencias y Humanidades (CEIICH), Universidad Nacional Autónoma de México, Mexico City, September 8, 2008.

"Big Blue in the Bottomless Pit," Colloquium for the Rob Kling Center for Social Informatics, Indiana University, April 4, 2008.

"The Chilean Network Experiment: From Poetics to Systemics," *Transmediale '08*, Berlin, Germany, January 30, 2008.

"Diseñando libertad, regulando una nación: cibernética socialista en el Chile de Allende," *Situation Room*, Hackitectura, Asturias, Spain, January 25, 2008.

"Technology, Politics, and the Chilean Road to Socialism," Colloquium for the Political Science Department, Indiana University, October 31, 2007.

“Proyecto Synco: ¿Utopía tecnológica?,” Chilean Presidential Palace La Moneda, Santiago, Chile, July 25, 2006.

“Computer Memories: Technology and the Telling of Chilean History,” Joint Colloquium for the Department of Science Studies and the Department of History, University of California San Diego, February 6, 2006.

“La historia de la informática en Chile,” Department of Mathematics and Computer Science, Universidad de Santiago de Chile, Santiago, Chile, December 29, 2005.

“Opsroom,” Goethe Institute, Santiago, Chile, December 28, 2005.

Latino Faculty Discussion Series, La Casa Latino Cultural Center, Indiana University, September 26, 2005.

“Empanadas, Red Wine, and Mainframes,” Colloquium for the History and Philosophy of Science Department, Indiana University, October 9, 2004.

“Revolutionary Computing: Information Technology and Governance in Allende’s Chile,” Indiana University School of Informatics, November 17, 2003.

“Los proyectos de transformación económica y el golpe de estado,” El Chile de la Unidad Popular: a 30 años, Programa Jornadas Inter-Universitarias, October 2, 2003.

“Lenguaje y proyecto a 30 años de la Unidad Popular,” School of Design, Pontificia Universidad Católica de Chile, September 10, 2003.

“Revolutionary Computing: The Chilean Experiment with Socialist Cybernetics,” MIT Western Hemisphere Project, March 12, 2003.

“Doing International Research After September 11,” MIT Program in Science, Technology, and Society Fall Colloquia, October 28, 2002.

CREATIVE WORKS

“Making Things Public—Politics After Politics”, Originator and designer of the *Opsroom* installation, ZKM Center for Digital Art and Media, Bruno Latour and Peter Weibel curators, Karlsruhe, Germany, March 20 - October 3, 2005.

“The Other September 11: An Exhibit of Photos,” Photographer and co-coordinator, MIT Wiesner Art Gallery, Cambridge, MA, September 11- October 18, 2003.

Photographer for the article, “The Naked Emperor of the Southern Cone: Pinochet and the New Chile,” Jonathan Taylor author, *ReVista Harvard Review of Latin America* 3 (2003).

SELECTED INTERVIEWS AND PRESS ARTICLES

“IU Professor analyzes Chile’s ‘Project Cybersyn,’ *Live at IU*, June 18, 2009.

“Les médias disparus: Cybersyn, réseau social,” *Libération*, August 15, 2008.

“IU’s Eden Medina earns electrical history award for research on Chile’s technology use,” IU News Room, Indiana University, October 31, 2007.

“Objects of Our Desire,” *The Washington Post*, August 23, 2007.

“Doce científicos revisan la época de Augusto Pinochet,” *El Mercurio*, December 12, 2006.

“Chile’s Switched-on Socialism Pioneered Networking in the Early ‘70s,” News and Media, Indiana University, October 24, 2005.

Virginia Rioseco, “Eden Miller, estudiante de MIT. El proyecto Synco: ¿Utopía cibernética o treinta años adelantado a su época?,” *Sociedad & Conocimiento*, Magazine of the Universidad Central, Santiago de Chile, December 2003.

Guest, “On the Media,” National Public Radio, New York, September 13, 2003.

Andy Beckett, “Santiago Dreaming,” *The Guardian*, London, September 8, 2003.

Juan Andrés Guzmán, “Proyecto Synco: El Sueño Cibernético de Allende,” *The Clinic*, no. 107, July 10, 2003, Santiago de Chile, 5-8.

FELLOWSHIPS/GRANTS

2009	Co-PI, John E. Sawyer Seminar on the Comparative Study of Cultures, Mellon Foundation (seminar will take place during the 2010-2011 academic year).
2009	Travel Grant, Overseas Conference Fund, Office for the Vice President for International Affairs, Indiana University.
2007-2008	Scholar’s Award, National Science Foundation.
2008	Research Travel Grant, Center for Latin American and Caribbean Studies, Indiana University.
2007	Summer Faculty Fellowship, Indiana University.
2003-2005	Dissertation Improvement Grant, National Science Foundation.
2003-2004	Tomash Fellowship in the History of Information Processing, Charles Babbage Institute.
2003-2004	Mellon Fellowship for Dissertation Research in the Humanities and Original Sources, Center for Library and Information Resources (awarded and declined).
2002-2004	Graduate Fellowship, Dibner Institute for the History of Science and Technology.
2001-2002	International Predissertation Fellowship, Social Science Research Council and the American Council of Learned Societies.
2000	Provost's Fellowship, MIT School of Humanities and Social Science.
1997 – 1998	Merit-based Graduate School Fellowship, awarded by the University of Maryland, College Park, Department of Electrical Engineering.

- 1997 GEM M.S. Engineering Fellowship for graduate studies in Electrical Engineering (awarded and declined).
- 1994 Society for Hispanic Professional Engineers Scholarship.
- 1993 – 1997 Armed Forces Communications Electronics Association (AFCEA) John F. Skinner Scholarship.

AWARDS

- 2007 IEEE Life Members' Prize in Electrical History ("recognizes the best paper in electrical history published during the preceding year").
- 2001 MIT Siegel Prize (awarded to the best student paper of the year in the history, philosophy, and social studies of science and technology).
- 1997 Second place, IEEE Region 1 Student Paper Contest.
- 1996 AT&T Scholar Award (given by Princeton to "an undergraduate who displays strong academic performance, potential for professional growth, and excellence in extra-curricular activities").
- 1995 – 1997 NAMEPA Certificate of Merit in Engineering.

LANGUAGES

Spanish (fluent) Portuguese (reading) French (reading)

TEACHING

- "Cybernetics and Revolution: International Histories of Science, Technology, and Political Change," Indiana University *Bloomington, IN (2008)*
- "Introduction to Social Informatics," Indiana University *Bloomington, IN (2005- 2009)*
- "Advanced Doctoral Seminar in Social Informatics," Indiana University *Bloomington, IN (2006, 2009)*
- "Computer and Information Ethics," Indiana University *Bloomington, IN (2006, 2010)*
- "The Structure of Engineering Revolutions," MIT (Teaching Assistant) *Cambridge, MA (1999, 2000)*

OTHER POSITIONS

- Oral Historian, MIT Oral History Project *Cambridge, MA (Summer 2000)*
- Historical Consultant, MIT Laboratory for Computer Science *Cambridge, MA (1998 – 1999)*
- Instructor, SummerMath Program *South Hadley, MA (July 1998)*
- Electrical Engineer, Department of Defense *Fort Meade, MD (1997- 1998)*

PROFESSIONAL MEMBERSHIPS

- 2003 – present Member Society for the Social Studies of Science.
- 2001 – present Member of the Latin American Studies Association.
- 1998 – present Member Society for the History of Technology.
- 1997 – present Member IEEE.

SELECTED UNIVERSITY SERVICE

- 2008 – present Faculty Advisory Committee, Rob Kling Center for Social Informatics.
- 2008 – present Executive Board, Center for Latin American and Caribbean Studies.
- 2007 – present Executive Board, Women in Computing (WIC), School of Informatics.
- 2007 – 2008 Research Subcommittee, School of Informatics.
- 2005 – present Member of the NSF Alliance for Graduate Education and the Professorate (AGEP).
- 2005 – 2008 Globalization Committee, Dept. of Informatics
- 2005 – 2007 Graduate Admissions Committee, Dept. of Informatics.
- 2006 – 2007 Organizing committee for the conference “Putting Memory in Place,” February 2007, Bloomington, Indiana.
- 2005 – 2006 Organizing committee for the conference, “Informatics Goes Global: Methods at a Crossroads,” February 2006, Bloomington, Indiana.

PROFESSIONAL SERVICE

- 2008 – present Associate Editor, *IEEE Annals of the History of Computing*
- 2006 – 2008 Internationalization Committee, Society for the History of Technology (chair 2007, 2008).
- 2005 – present Reviewer for *Technology and Culture*, *IEEE Annals of the History of Computing* and Harvard University Press.

OTHER APPOINTMENTS

- 2007 – present Affiliated Faculty, History and Philosophy of Science Department, Indiana University, Bloomington.
- 2005 – present Affiliated Faculty, Center for Latin American and Caribbean Studies, Indiana University, Bloomington.

2004 – 2005 Research Associate, School of Informatics, Indiana University,
Bloomington.

2002 – 2004 Graduate Fellow, Dibner Institute for the History of Science and
Technology.

2001 – 2002 Visiting Scholar, Universidad de Chile.

2001 – 2002 Visiting Scholar, Pontificia Universidad Católica de Chile.

Winter 2002 Visiting Student, Universidade de São Paulo, Brazil.

Summer 1999 Visiting Student, Universidad de las Américas, Ecuador.