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Education

Stanford University, Stanford, CA. Ph.D. in history, 1996.

University of New Mexico, Albuquerque, NM. M.A. in Latin American Studies, 1992.

Princeton University, Princeton, NJ. B.A. in history, 1983.

Academic Positions

Professor of History and Global Affairs, Department of History and the Keough School of Global Affairs, 2023-present

Professor, Department of History, University of Notre Dame, 2016-2022.

Visiting Instructor, Department of History, Bielefeld University, Germany, June 2017.

Associate Professor, Department of History, University of Notre Dame, 2005-2015.

Visiting Scholar, Instituto de Iberoamérica, Universidad de Salamanca, Spain, 2010.

Faculty Fellow, Kellogg Institute for International Studies, University of Notre Dame, 2000-present.

Assistant Professor, Department of History, University of Notre Dame, 2000-2004.

Assistant Professor, Duquesne University, Department of History, 1997-2000.

Lecturer, Stanford University, Department of History, 1996-97.

Visiting Research Fellow, Center for U.S.- Mexican Studies, University of California, San Diego, 1995-1996.

Teacher, John Woolman School, Nevada City, CA, 1985-1990; Friends of the Open Road School, 1984-1985.

Administrative Positions

Associate Dean for Academic Affairs, Keough School of Global Affairs, University of Notre Dame, 2015-22.

Director of Graduate Studies, Department of History, University of Notre Dame, 2010-2014.

Interim Director, Kellogg Institute for International Studies, Notre Dame, 2007-2009.

Director, Latin American Studies Program, University of Notre Dame, 2004-2007.

Books

Blueprint for Modernity: Global Histories of Engineering, 9 chapter volume co-edited with Israel G. Solares. Forthcoming with MIT Press.

Technology and the Search for Progress in Modern Mexico, University of California Press, 2015.

Winner, 2016 Friedrich Katz Prize from the American Historical Association for best book on Latin America and the Caribbean.

El mito de una riqueza proverbial. ideas, utopías y proyectos económicos en turno á México en los siglos xviii y xix. co-authors & editors: Francisco Altable, José Enrique Covarrubias, Richard Weiner and Edward Beatty. Mexico: Universidad Nacional Autónoma de México, 2015.

Institutions and Investment: The Political Basis of Industrialization in Mexico before 1911, Stanford University Press, 2001.

Work-in-Progress

“Engineering Networks and Technology Diffusion in the Global Mining Industry, 1870-1930,” article manuscript in preparation, with Israel G. Solares.

“Blueprint for Modernity: A New Database of Global Engineers, 1870-1940,” article manuscript in preparation, with Israel G. Solares.

“The International Business of Strategic Materials: Cyanide 1870-1930,” article manuscript in preparation, with Israel G. Solares.

Refereed Articles

“[Engineers and Corporate Management, ca. 1870-1930: the Invisible Hand redux](https://www.doi.org/10.1017/eso.2022.57),” with Israel G. Solares, *Enterprise and Society*, 2023, 1-26.
<https://www.doi.org/10.1017/eso.2022.57>

“Technology in Latin America’s Past and Present: New Evidence from the Patent Records,” co-authored with Patricio Sáiz and Yovanna Pineda, *Latin American Research Review* 52:1, 2017, pp. 138-149. DOI: <http://doi.org/10.25222/larr.46>

“Globalization and Technological Capabilities: Evidence from Mexico’s Patent Records ca. 1870-1911,” *Estudios de Economía*, special issue on “Economic and Business History of Latin America,” 42:2, 2015, pp. 45-65.

“Bottles for Beer: Business Strategy and the Challenge of Technology Transfer in Mexico,” *Business History Review* 83, Summer 2009, pp. 317-348.

“Approaches to Technology Transfer in History and the Case of Nineteenth Century Mexico,” *Comparative Technology Transfer and Society* 1:2, 2003, pp. 167-200.

“Visiones del futuro: la reorientación de la política económica en México (1867-1893),” *Signos Históricos* (Mexico), vol. 10, julio-diciembre 2003, pp. 39-56.

“Patents and Technological Change in Late Industrialization: Nineteenth Century Mexico in Comparative Perspective,” *History of Technology* vol. 24, 2002, pp. 121-150.

“The Impact of Foreign Trade on the Mexican Economy: Terms of Trade and the Rise of Industry, 1880-1923,” *Journal of Latin American Studies*, 32:2, May 2000, pp. 399-433.

“Inención e innovación: ley de patentes y tecnología en el México del siglo xix,” *Historia Mexicana* (Mexico), 45:3, no. 179, enero-marzo 1996, pp. 567-619.

Refereed Book Chapters

“Introduction” and “Conclusion” in *Blueprint for Modernity: Global Histories of Engineering*, with Israel G. Solares, forthcoming from MIT Press.

“Mexico and the Puzzle of Partial Harmonization: Nineteenth Century Patent Law Reconsidered,” in Graeme Gooday and Steven Wilf, eds., [*Patent Cultures: Diversity and Harmonization in Historical Perspective*](#), Cambridge University Press, 2020, pp. 109-125.

“Riqueza, Polémica, y Política: Pensamiento y Políticas Económicas en México, (1765-1911),” in Francisco Altable, José Enrique Covarrubias, Richard Weiner and Edward Beatty, *El mito de una riqueza proverbial. ideas, utopías y proyectos económicos en turno a México en los siglos xviii y xix*. Mexico: Universidad Nacional Autónoma de México, 2015.

“The World’s Beer: A Historical Geography of Beer in Mexico,” with Susan M. Gauss, in Mark W. Patterson and Nancy Hoalst Pullen, eds. *The Geography of Beer: Regions, Environment, and Societies*, Springer Publishing, 2014.

“Propiedad industrial, patentes e inversión en tecnología en España y México (1820-1914),” with Patricio Sáiz González, in Rafael Dobado, Aurora Gómez-Galvarriato, and Graciela Márquez, eds., *España y México: Historias Económicas Paralelas?* Mexico: Fondo de Cultura Económica, 2007.

“Commercial Policy in Porfirian Mexico: The Structure of Protection,” in Stephen Haber & Jeffrey Bortz, eds., *The Mexican Economy, 1870-1930: Essays on the Economic History of Institutions, Revolution, and Growth*, Stanford University Press, 2002, pp. 205-252.

Non-Refereed Articles, Chapters, Databases, Encyclopedia Entries, etc.

“Roundtable commentary on *Fueling Mexico: Energy and Environment, 1850-1950*,” [H-Environment Roundtable 14:1](#) (2024).

“[Technology in Nineteenth Century Mexico](#),” *The Oxford Research Encyclopedia of Latin American History*, William Beezley, ed. Oxford University Press, 2017; reprinted in *The [Oxford Encyclopedia of Mexican History and Culture](#)* (2019)

- “Mexican Patent Database, 1840-1910,” Prepared for public access [[link](#)]. Content: the only comprehensive database of all invention patents issued in Mexico for this period (approximately 13,300).
- “Sabine G. MacCormack, In Memorium,” with Karen Graubart, *Hispanic American Historical Review* 93:1.
- “Modernization, Latin America,” *The Oxford Encyclopedia of the Modern World*, ed. Peter Stearns et. al, Oxford University Press, 2008.
- “Industrial Property Institutions, Patenting, and Technology Investment in Spain and Mexico, c. 1820-1914,” with J. Patricio Saiz, *Working Papers in Economic History* No. 2007/02, Universidad Autónoma de Madrid ([econpapers/repec.org/paper/uamwpapeh/200702.htm](http://econpapers.repec.org/paper/uamwpapeh/200702.htm)).
- “Mining,” *A History of World Trade Since 1450*, ed. John J. McCusker et. al, Macmillan Reference Library, 2005.
- “Patent Rights and Technology Transfer in Late Nineteenth-Century Mexico,” in *Memorias del XXI Congreso Internacional de Historia de la Ciencia*.
- “The Political Basis of Industrialization in Mexico before 1911,” dissertation summary, *Journal of Economic History* 58:2, June 1998, pp. 525-528 (as a finalist in the annual EHA Gerschenkron Prize competition).

Grants and Fellowships

- National Science Foundation (NSF) Project Award, Social Studies of Science Program, #2020926, co-PI with Israel García Solares, 2020-2024.
- Notre Dame International, Mexico Grant, Nov. 2019.
- Kellogg Institute, University of Notre Dame, Faculty Collaborative Research Grant, Nov. 2018.
- National Science Foundation (NSF) Project Award, Science and Technology Studies Program, #SES-0217001, 2002-04.
- ISLA summer travel grants, University of Notre Dame, 2001, 2002.
- NEH Endowment Competition for internal summer research funds; Duquesne University, May 2000 (declined).
- Arthur H. Cole Grant-in-Aid, Economic History Association, June 1999.
- Presidential Scholarship Grant, Duquesne University, Summer 1999.
- Faculty Summer Research Grant, Duquesne University, Summer 1998.
- National Science Foundation (NSF), Law and Social Sciences Program, Dissertation Improvement Grant, #SBR-9410880, 1995.
- Center for U.S.-Mexican Studies, University of California, San Diego, Dissertation Residential Fellowship, 1995-96.

Social Science Research Council (SSRC), International Doctoral Research Fellowship, dissertation field research in Mexico City, 1994-95.

North American Forum, Stanford University, Field Research Grant, Summer 1995.

North American Forum, Stanford University, Field Research Grant, Summer 1994.

Mellon Field Research Grant, Center for Latin American Studies, Stanford, Summer 1993.

History Department Fellowship, Stanford University, 1992-1995.

Title VI Foreign Language and Area Studies Fellowship, U.S. Department of Education & University of New Mexico, 1991-1992.

Graduate Assistantship, Latin American Institute, University of New Mexico, 1990-1991.