

HOWARD F. CHANG

University of Pennsylvania Law School
3501 Sansom St.
Philadelphia, PA 19104-6204
Telephone: 215-573-8296
FAX: 215-573-2025
E-mail: hchang@law.upenn.edu

Employment:

1999-present **University of Pennsylvania Law School**, Philadelphia, PA
2006-present Earle Hepburn Professor of Law
1999-2006 Professor of Law

1992-1999 **University of Southern California Law School**, Los Angeles, CA
1997-1999 Professor of Law
1994-1997 Associate Professor of Law
1992-1994 Assistant Professor of Law

1988-1989 Law Clerk, **Hon. Ruth Bader Ginsburg**,
U.S. Court of Appeals for the D.C. Circuit, Washington, DC

Visiting:

Fall 2007 Visiting Professor of Law, **University of Chicago Law School**, Chicago, IL

Spring 2002 Visiting Professor of Law, **University of Michigan Law School**, Ann Arbor, MI

Fall 2001 Visiting Professor of Law, **New York University School of Law**, New York, NY

Winter 2001 Visiting Professor of Law, **Harvard Law School**, Cambridge, MA

Fall 1998 Visiting Professor of Law, **Stanford Law School**, Stanford, CA

1996-1997 Visiting Associate Professor of Law,
Georgetown University Law Center, Washington, DC

Education:

1989-1992, **Massachusetts Institute of Technology**, Cambridge, MA
1987-1988 Ph.D. in Economics in September 1992; S.M. in Economics in May 1988
Doctoral Thesis Title: "Essays in Law and Microeconomic Theory"
Major Fields: International Economics; Industrial Organization

1985-1987, **Harvard Law School**, Cambridge, MA
1982-1983 J.D. (magna cum laude) in June 1987
Supervising Editor, Harvard Law Review

1983-1985 **Woodrow Wilson School of Public and International Affairs**,
Princeton University, Princeton, NJ
Master in Public Affairs in June 1985
Field: Economics and Public Policy (passed with distinction)

1978-1982 **Harvard College**, Cambridge, MA
A.B. (cum laude) in Government in June 1982

Bar:

Admitted to bar in 1989 in New York and the District of Columbia.

Birth: Born in 1960 in Lafayette, Indiana.

Courses Taught: International Trade Regulation (Fall 1993 - present)
Immigration Law (Spring 1994 - present)
International Environmental Law (Spring 2004 - present)
Environmental Law (Spring 2000 - Fall 2000)
Intellectual Property (Fall 1992 - Fall 1997)

Publications and Works in Progress:

"The Economics of Immigration Reform," 52 *UC Davis Law Review* 111 (2018) (symposium contribution)

"The Environment Chapter of the Trans-Pacific Partnership: An Environmental Agreement within a Trade Agreement," 47 *Trends*, May/June 2016, at 16

"Walls or Welcome Mats? Immigration and the Public Treasury," 4 *Penn Wharton Public Policy Initiative Issue Briefs*, No. 5, May 2016

"Walls or Welcome Mats? Immigration and the Labor Market," 4 *Penn Wharton Public Policy Initiative Issue Briefs*, No. 4, May 2016

LAW AND ECONOMICS OF IMMIGRATION (Howard F. Chang ed., 2015) (edited volume from Edward Elgar Publishing with original introduction surveying the literature)

"An Empirical Analysis of Cost Recovery in Superfund Cases: Implications for Brownfields and Joint and Several Liability" (with Hilary Sigman), 11 *Journal of Empirical Legal Studies* 477 (2014)
National Bureau of Economic Research Working Paper No. 16209 (2010)
summarized in Lester Picker, "Cost Recovery in Superfund Cases," *NBER Digest*, Dec. 2010

"Endogenous Decentralization in Federal Environmental Policies" (with Hilary Sigman & Leah Traub)
37 *International Review of Law and Economics* 39 (2014)

"The Effect of Allowing Pollution Offsets with Imperfect Enforcement" (with Hilary Sigman)
101 *American Economic Review*, May 2011, at 268 (Papers and Proceedings)

"The Immigration Paradox: Alien Workers and Distributive Justice,"
in CITIZENSHIP, BORDERS, AND HUMAN NEEDS 92 (Rogers M. Smith ed., 2011)

"The Environment and Climate Change: Is International Migration Part of the Problem or Part of the Solution?," 20 *Fordham Environmental Law Review* 341 (2010) (symposium contribution)

"Implications of Globalization and Trade for Water Quality in Transboundary Rivers" (with Hilary Sigman),
in GLOBAL CHANGE: IMPACTS ON WATER AND FOOD SECURITY 97 (Claudia Ringler, Asit K. Biswas & Sarah A. Cline eds., 2010)

"Cultural Communities in a Global Labor Market: Immigration Restrictions as Residential Segregation," *in*
CHALLENGES OF GLOBALIZATION: IMMIGRATION, SOCIAL WELFARE, GLOBAL GOVERNANCE 78 (Andrew C. Sobel ed., 2009)

"Immigration Restriction as Redistributive Taxation: Working Women and the Costs of Protectionism in the Labor Market," 5 *Journal of Law, Economics & Policy* 1 (2009) (symposium contribution)
reprinted in 30 IMMIGRATION AND NATIONALITY LAW REVIEW 487 (Gabriel J. Chin ed., 2009)

- "Guest Workers and Justice in a Second-Best World,"
34 *University of Dayton Law Review* 3 (2008) (symposium contribution)
- "The Disadvantages of Immigration Restriction as a Policy to Improve Income Distribution,"
61 *SMU Law Review* 23 (2008) (symposium contribution)
- "The Economics of International Labor Migration and the Case for Global Distributive Justice in Liberal Political Theory," 41 *Cornell International Law Journal* 1 (2008) (symposium contribution)
reprinted in 6 *Icfai University Journal of Employment Law*, Oct. 2008, at 28
- "How International Law Could Increase Wealth and Reduce Global Inequality by Liberalizing Migration,"
101 *American Society of International Law Proceedings* 311 (2007)
- "The Effect of Joint and Several Liability Under Superfund on Brownfields" (with Hilary Sigman)
27 *International Review of Law and Economics* 363 (2007)
- "Cultural Communities in a Global Labor Market: Immigration Restrictions as Residential Segregation,"
2007 *University of Chicago Legal Forum* 93 (2007) (symposium contribution)
reprinted in 28 *IMMIGRATION AND NATIONALITY LAW REVIEW* 453 (Gabriel J. Chin ed., 2007)
- "The Economic Impact of International Labor Migration: Recent Estimates and Policy Implications,"
16 *Temple Political and Civil Rights Law Review* 321 (2007) (symposium contribution)
- "Reasonable Emissions of Greenhouse Gases: Efficient Abatement of a Stock Pollutant,"
155 *University of Pennsylvania Law Review* 1869 (2007) (symposium comment)
- "Environmental Trade Measures, the Shrimp-Turtle Rulings, and the Ordinary Meaning of the Text of the GATT," 8 *Chapman Law Review* 25 (2005) (symposium contribution)
- "Immigration Restrictions as Employment Discrimination," *in* *CROSS-BORDER HUMAN RESOURCES, LABOR AND EMPLOYMENT ISSUES: PROCEEDINGS OF THE NEW YORK UNIVERSITY 54TH ANNUAL CONFERENCE ON LABOR* 95 (Andrew P. Morriss & Samuel Estreicher eds., 2005)
- "Risk Regulation, Endogenous Public Concerns, and the Hormones Dispute: Nothing to Fear but Fear Itself?," 77 *Southern California Law Review* 743 (2004)
- "Any Non-Welfarist Method of Policy Assessment Violates the Pareto Principle: A Comment,"
111 *Journal of Political Economy* 1382 (2003) (with Marc Fleurbaey & Bertil Tungodden)
- "The Immigration Paradox: Poverty, Distributive Justice, and Liberal Egalitarianism,"
52 *DePaul Law Review* 759 (2003) (symposium contribution)
- "Immigration and the Workplace: Immigration Restrictions as Employment Discrimination,"
78 *Chicago-Kent Law Review* 291 (2003) (Kenneth M. Piper Lecture)
reprinted in 24 *IMMIGRATION AND NATIONALITY LAW REVIEW* 445 (Gabriel J. Chin ed., 2003)
- "Public Benefits and Federal Authorization for Alienage Discrimination by the States,"
58 *New York University Annual Survey of American Law* 357 (2002) (symposium contribution)
excerpted in THOMAS ALEXANDER ALEINIKOFF ET AL., *IMMIGRATION AND CITIZENSHIP* 1369 (7th ed. 2012)
- "Liberal Ideals and Political Feasibility: Guest-Worker Programs as Second-Best Policies,"
27 *North Carolina Journal of International Law and Commercial Regulation* 465 (2002)
(symposium contribution)
reprinted in 23 *IMMIGRATION AND NATIONALITY LAW REVIEW* 339 (Gabriel J. Chin ed., 2002)

- "Non-Welfarist Paretian Methods of Policy Assessment,"
University of Pennsylvania Institute for Law and Economics Research Paper No. 01-18 (2001)
- "A Liberal Theory of Social Welfare: Fairness, Utility, and the Pareto Principle,"
110 *Yale Law Journal* 173 (2000)
- "The Possibility of a Fair Paretian," 110 *Yale Law Journal* 251 (2000) (rejoinder)
- "Toward a Greener GATT: Environmental Trade Measures and the Shrimp-Turtle Case,"
74 *Southern California Law Review* 31 (2000) (symposium contribution)
- "The Economic Analysis of Immigration Law," in *MIGRATION THEORY: TALKING ACROSS DISCIPLINES* 205
(Caroline B. Brettell & James F. Hollifield eds., 2000)
- "Incentives to Settle Under Joint and Several Liability: An Empirical Analysis of Superfund Litigation,"
29 *Journal of Legal Studies* 205 (2000) (with Hilary Sigman)
- "The Effect of Offer-of-Settlement Rules on the Terms of Settlement,"
28 *Journal of Legal Studies* 489 (1999) (with Lucian A. Bebchuk)
- "The Economic Effects of Immigration and the Case for Liberalizing Reforms,"
4 *Bender's Immigration Bulletin* 497 (1999)
- "Environmental Trade Measures and the GATT: Lessons from the Shrimp-Turtle Case,"
in *INSTITUTE OF CETACEAN RESEARCH, REPORT OF THE ROUND-TABLE CONFERENCE ON CONSERVATION
AND MANAGEMENT OF MARINE LIVING RESOURCES AND INTERNATIONAL TRADE POLICY* 53 (1999)
- "Migration as International Trade: The Economic Gains from the Liberalized Movement of Labor,"
3 *UCLA Journal of International Law and Foreign Affairs* 371 (1998-99) (symposium contribution)
reprinted in 20 *IMMIGRATION AND NATIONALITY LAW REVIEW* 339 (Gabriel J. Chin ed., 1999)
excerpted in STEPHEN H. LEGOMSKY & CRISTINA M. RODRIGUEZ,
IMMIGRATION AND REFUGEE LAW AND POLICY 75 (5th ed. 2009)
and in THOMAS ALEXANDER ALEINIKOFF ET AL., *IMMIGRATION AND CITIZENSHIP* 483 (6th ed. 2008)
- "Carrots, Sticks, and International Externalities," 17 *International Review of Law and Economics* 309 (1997)
- "Immigration Policy, Liberal Principles, and the Republican Tradition,"
85 *Georgetown Law Journal* 2105 (1997) (symposium contribution)
- "Liberalized Immigration as Free Trade: Economic Welfare and the Optimal Immigration Policy,"
145 *University of Pennsylvania Law Review* 1147 (1997)
- "An Analysis of Fee Shifting Based on the Margin of Victory: On Frivolous Suits, Meritorious Suits, and the
Role of Rule 11," 25 *Journal of Legal Studies* 371 (1996) (with Lucian A. Bebchuk)
- "An Economic Analysis of Trade Measures to Protect the Global Environment,"
83 *Georgetown Law Journal* 2131 (1995)
reprinted in 27 *LAND USE AND ENVIRONMENT LAW REVIEW* 611
(Stuart L. Deutsch & A. Dan Tarlock eds., 1996)
excerpted in RICHARD L. REVESZ, *FOUNDATIONS OF ENVIRONMENTAL LAW AND POLICY* 323 (1997)
- "Patent Scope, Antitrust Policy, and Cumulative Innovation," 26 *RAND Journal of Economics* 34 (1995)

"Bargaining and the Division of Value in Corporate Reorganization,"
8 *Journal of Law, Economics, and Organization* 253 (1992) (with Lucian A. Bebchuk)
excerpted in BARRY E. ADLER, *FOUNDATIONS OF BANKRUPTCY LAW* 203 (2005)

"Developments in the Law -- Toxic Waste Litigation," Parts VI-VII,
99 *Harvard Law Review* 1458, 1543-73 (1986) (student note)

Named Lectures:

Robert A. Christie Lecture, Millersville University, October 18, 2017
Henry George Lecture, University of Scranton, April 27, 2009
Kenneth M. Piper Memorial Lecture, Chicago-Kent College of Law, April 3, 2001

Other Academic Presentations (papers presented outside own university since 1994):

University of California, Davis, School of Law (immigration symposium), October 2017
University of Michigan Law School (immigration symposium), February 2015
University of Connecticut School of Law (immigration symposium), February 2014
Queen's University, Canada (Faculty of Law workshop), January 2013
Canadian Law and Economics Association (annual meeting), September 2012
Society of Environmental Law and Economics (annual meeting), June 2012
American Law and Economics Association (annual meeting), May 2012
European Association of Environmental and Resource Economists (annual meeting), Italy, July 2011
Society of Environmental Law and Economics (annual meeting), Netherlands, June 2011
American Law and Economics Association (annual meeting), May 2011
National Bureau of Economic Research (Law and Economics Program meeting), March 2011
Rutgers School of Law at Newark (immigration symposium), March 2011
World Congress of Environmental and Resource Economists, Canada, June 2010
DePaul University College of Law (Biennial Immigration Law Teachers Workshop), May 2010
American Law and Economics Association (annual meeting), May 2010
Society of Environmental Law and Economics (annual meeting), March 2010
Latin American and Caribbean Law and Economics Association (annual meeting), Spain, June 2009
University of Scranton (Henry George Program), April 2009
Fordham University School of Law (symposium on environmental migration), February 2009
Boston University School of Law (Law and Economics workshop), October 2008
Loyola Law School (tax policy colloquium), September 2008
American Law and Economics Association (annual meeting), May 2008
George Mason University (immigration symposium), March 2008
University of Dayton School of Law (immigration symposium), February 2008
University of Arizona (Economics, Law, and the Environment workshop), January 2008
University of Chicago Law School (Law and Economics seminar), November 2007
Southern Methodist University School of Law (immigration symposium), October 2007
Copenhagen Business School, Denmark (symposium on environmental law and economics), August 2007
Copenhagen Business School, Denmark (immigration policy seminar), August 2007
University of Gloucestershire, England (conference on law, justice, and globalization), July 2007
American Law and Economics Association (annual meeting), May 2007
American Society of International Law (annual meeting), March 2007
Cornell Law School (immigration symposium), February 2007
Bar-Ilan University, Israel (law faculty workshop), January 2007
Tel Aviv University, Israel (Law and Economics workshop), January 2007
Drexel University (Department of Economics seminar), November 2006
University of Chicago Law School (immigration law symposium), October 2006
Sacramento State University (symposium on ethics of immigration), October 2006
Temple University School of Law (immigration symposium), October 2006

Canadian Law and Economics Association (annual meeting), September 2006
European Association of Law and Economics (annual meeting), Spain, September 2006
IAMZ, Spain (conference on game theory and the environment), July 2006
World Congress of Environmental and Resource Economists, Japan, July 2006
Stanford Law School (Law and Economics seminar), April 2006
University of Akron School of Law (faculty workshop), April 2006
American Law and Economics Association (annual meeting), May 2005
CATIE, Costa Rica (International Food Policy Research Institute conference on globalization), April 2005
Tulane University (conference on globalization and fairness), April 2005
Chapman University School of Law (international law symposium), February 2005
Columbia University (UN Secretary-General's Global Colloquium on International Migration), January 2005
Georgetown University Law Center (Law and Economics seminar), December 2004
Shanghai University, China (United Nations Development Programme roundtable), July 2004
Renmin University, China (United Nations Development Programme seminar), June 2004
Association of American Law Schools (environmental law conference), June 2004
Washington University (conference on globalization), November 2003
Temple University School of Law (Delaware Valley International Law Day conference), November 2003
American Law and Economics Association (annual meeting), September 2003
Princeton University (Law and Public Affairs seminar), April 2003
Association of American Law Schools (annual meeting), January 2003
University of Chicago Law School (Law and Economics seminar), November 2002
European Association of Law and Economics (annual meeting), Greece, September 2002
University of California, Berkeley, School of Law (international law workshop), May 2002
University of Michigan Law School (international law workshop), April 2002
DePaul University College of Law (immigration law symposium), March 2002
University of Michigan Law School (Fawley lunch series), February 2002
University of North Carolina School of Law (immigration law symposium), January 2002
University of Michigan Law School (faculty workshop), January 2002
New York University School of Law (Workshop on Labor and Employment Law), November 2001
New York University School of Law (immigration symposium), October 2001
New York University School of Law (faculty workshop), October 2001
Copenhagen Business School, Denmark (Law and Economics seminar), March 2001
Copenhagen Business School, Denmark (immigration policy seminar), March 2001
University of California, Davis, School of Law (faculty workshop), March 2001
Association for Comparative Studies of Legal Cultures, Japan (symposium on fisheries), March 2001
Harvard University (National Asian Pacific American Conference on Law and Public Policy), March 2001
Harvard Law School (faculty workshop), December 2000
National Bureau of Economic Research (Summer Institute), August 2000
American Law and Economics Association (annual meeting), May 2000
University of Michigan Law School (immigration panel), February 2000
New York University Law School (Law, Economics, and Politics seminar), January 2000
Georgetown University Law Center (Law and Economics seminar), November 1999
National Bureau of Economic Research (Summer Institute), July 1999
American Law and Economics Association (annual meeting), May 1999
Institute of Cetacean Research, Japan (conference on conservation of marine life), April 1999
Association for Asian American Studies (East of California conference), October 1998
University of Michigan Law School (Law and Economics seminar), October 1998
Stanford Law School (faculty workshop), October 1998
Stanford Law School (Law and Economics seminar), October 1998
University of California, Berkeley, School of Law (Biennial Immigration Law Teachers Workshop), May 1998
Duke University School of Law (faculty workshop), April 1998
University of California at Los Angeles (immigration symposium), April 1998
National Bureau of Economic Research (Summer Institute), August 1997
American Law and Economics Association (annual meeting), May 1997

Georgetown University Law Center (conference on international economic regulation), April 1997
Harvard Law School (Law and Economics seminar), February 1997
George Washington University (Department of Economics seminar), November 1996
University of Pennsylvania Law School (faculty workshop), November 1996
Georgetown University Law Center (Law and Economics seminar), September 1996
Harvard Law School (conference on the economics of litigation), December 1995
Stanford Law School (Law and Economics seminar), October 1995
California Institute of Technology (Law and Social Science seminar), May 1995
American Law and Economics Association (annual meeting), May 1995
Georgetown University Law Center (Law and Economics seminar), April 1995
Northwestern University School of Law (faculty workshop), October 1994
Canadian Law and Economics Association (annual meeting), September 1994
American Law and Economics Association (annual meeting), May 1994
University of California, Irvine (Department of Economics seminar), May 1994
Harvard Law School (Law and Economics seminar), March 1994

Discussant (on papers presented outside own university):

American Educational Research Association (annual meeting), April 2014
European Association of Environmental and Resource Economists (annual meeting), Italy, July 2011
World Congress of Environmental and Resource Economists, Canada, June 2010
Temple University School of Law (international law colloquium), March 2007
European Association of Law and Economics (annual meeting), Spain, September 2006
World Congress of Environmental and Resource Economists, Japan, July 2006
National Bureau of Economic Research (Summer Institute), July 2004
Georgetown University Law Center (law and economics conference), October 2003
National Bureau of Economic Research (Summer Institute), August 2003
University of California, Berkeley, School of Law (international trade roundtable), January 2003
National Bureau of Economic Research (Summer Institute), August 2002
Econometric Society (annual meeting), January 2000
Oxford University (Oxford-USC Institute of Legal Theory), England, July 1993
American Economic Association (annual meeting), January 1993

Other Activities (outside own university):

Speaker, "The Economic Impact of Immigration," Legaled video, May 2014,
<http://legaledweb.com/immigration-law/>
Planning Committee, Immigration Law Teachers Workshop (biennial conference), June 2012
Reviewer, American Law and Economics Association annual meeting, May 2012
Program Committee, American Law and Economics Association annual meeting, May 2010
Area Organizer, International Law panels,
 American Law and Economics Association annual meeting, May 2008
Visiting Scholar, Copenhagen Business School, Denmark, Summer 2007
Board of Directors, American Law and Economics Association, 2004-2007
Chair, Nominating Committee, American Law and Economics Association, 2006
Planning Committee, Delaware Valley International Law Day annual conference, 2004-2006
Secretary and Executive Committee, Section on Law and Economics,
 Association of American Law Schools, 2001-2002
Area Organizer, International Law panel,
 American Law and Economics Association annual meeting, May 2001
Senior Research Associate in Law, Yale Law School, Spring 2001
Area Organizer, International and Comparative Law panel,
 American Law and Economics Association annual meeting, May 1998
Board of Directors, American Civil Liberties Union of Southern California, 1995-1998

Executive Advisory Board, Asian Pacific American Legal Center, 1995-1996
Board of Directors, Asian Pacific American Alliance, 1994-1996
Author, "Commentary: Perspectives on Proposition 187," *Los Angeles Times*, Sept. 6, 1994, at B5
Speakers' Bureau, Asian Pacific Islanders Against Proposition 187, Fall 1994

Awards: James H. Zumberge Fellowship, 1995-1996
John M. Olin Fellowships in Law and Economics, 1987-1988, 1989-1992
Harvard Law Review, 1985-1987
John Harvard Scholarships, 1979-1982
Harvard Scholarship, 1978-1979
National Merit Scholarship, 1978-1982

Member: American Economic Association
American Law and Economics Association
Association of Environmental and Resource Economists

Referee: American Economic Review
Economics and Philosophy
Edward Elgar Publishing
International Journal of the Economics of Business
International Review of Law and Economics
Journal of Empirical Legal Studies
Journal of Environmental Economics and Management
Journal of Environment and Development
Journal of Industrial Economics
Journal of Law and Economics
Journal of Law, Economics, and Organization
Journal of Legal Studies
Journal of Political Economy
Journal of Public Economics
Law and Philosophy
Palgrave Macmillan
RAND Journal of Economics
Review of Economic Studies
Review of Law and Economics
University of Toronto Law Journal
W.E. Upjohn Institute for Employment Research