

Curriculum Vitae for William Bentley MacLeod

August 1, 2023

Department of Economics and
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1 Professional Experience

- 2023- Lecturer with Rank of Professor and Research Scholar, Princeton University
- 2023- Sami Mnaymneh Professor Emeritus of Economics, Columbia University.
- 2023- Professor of International & Public Affairs Emeritus, Columbia University.
- 2011-2022 Sami Mnaymneh Professor of Economics, Columbia University.
- 2005-2022 Professor of International & Public Affairs, Columbia University.
- 2006-2022 Affiliated Professor, Columbia Law School.
- 2016- Department Affiliate, Center for Health and Well Being, Princeton University.

- 2021-22 President, American Law and Economics Association (Secretary-treasurer 2019-20, vice-President 2020-21)
- 2022 Visiting Scholar, Haas School of Business, Berkeley, CA.
- 2017-2018 President, Society of Institutional and Organizational Economics (SIOE - 2nd vice-President 2015-16, 1st vice-President 2016-17).
- 2015-2016 Visiting Research Fellow, Princeton University.
- 2011-2012 Leon Levy Foundation Member and Director Economics Program (Spring), Institute for Advanced Studies, Princeton, NJ.
- 2005-2011 Professor of Economics, Columbia University.
- 2010-2011 Leon Levy Foundation Member and Director Economics Program (Spring), Institute for Advanced Studies, Princeton, NJ.
- 2008-2011 Director, American Law and Economics Association.
- 2006-08 Co-Director, Program for Economic Research, Columbia University.
- 2004-07 Program Director, Personnel and Behavioral Economics, IZA, Bonn, Germany.
- 2003-2006 Director, Western Economics Association, 2003-2006.
- 2003-04 Visiting Professor of Economics, Princeton University.
- 2002 Visiting Professor of Economics and Law, California Institute of Technology.
- 2001 Visiting Scholar, CES, University of Munich, Germany (June 18-29).
- 1999-01 Determination fair formula for damage award in case of Abel v. Lockheed, Burbank, CA.
- 1997-2005 Professor of Economics, University of Southern California.
- 1996-98 Executive Committee, Association for Comparative Economics.

- 1996-97 Professor of Economics, Boston College.
- 1990-00 Research Associate of the C.R.D.E., Université de Montréal, (Deputy Director 01/94 - 06/95).
- 1993-95 Consultant for Employment and Immigration Canada.
- 1992-96 Professor of Economics, Université de Montréal.
- 1991 Olin visitor, Princeton University, Princeton, NJ (June).
- 1989-90 Visiting Professor, Universidad Autonoma de Barcelona IAE.
- 1992-92 Consultant for Independent Power Producers of Ontario.
- 1990-92 Associate Professor of Economics, Université de Montréal.
- 1987-91 Associate Professor, Queen's University, Kingston, Canada (with tenure).
- 1984-87 Assistant Professor, Queen's University, Kingston, Canada.
- 1984 Visiting Professor, CORE, Université Catholique de Louvain.
- 1983 Research Fellow, ISE and CORE, Université Catholique de Louvain.
- 1982-84 Lecturer, Queen's University, Kingston, Canada.
- 1978-79 Instructor, Calculus for Business Students, Queen's University, Kingston, Canada.
- 1975-77 Teacher (Physics and Mathematics), Boki Boys Secondary School, Nigeria.
- 1972-74 Summer Research Assistant, Physics Department, Queen's University.

2 Degrees and Graduate Studies

- 1975 Queen's University, Mathematics, B.A., with distinction.
- 1979 Queen's University, Mathematics, M.Sc (Thesis: On observers for non-linear dynamic systems).
- 1984 University of British Columbia, Economics, Ph.D (Thesis: Perspectives on Oligopoly Theory).

3 Distinctions and Honors

- 2021-2022 President, *American Law and Economics Association* (secretary-treasurer 2019-20, vice-President 2020-21).
- 2017-18 President, *Society of Institutional and Organizational Economics* (2nd vice-President 2015-16, 1st vice-President 2016-17).
- 2012 Elected Fellow of the *Society of Labor Economists*.
- 2011 Leon Levy Foundation Member, *Institute for Advanced Studies*, 2011-2012.
- 2010 Visiting Scholar, *Russell Sage Foundation*.
- 2007 John Weatherall Distinguish Fellow, Queen's University, Kingston Ontario, November.
- 2005 Elected Fellow of the *Econometric Society*.
- 2002 H. Gregg Lewis prize, awarded every two years by the Society of Labor Economists.
- 1981 Dal Grauer Memorial Prize for Economics, University of British Columbia.
- 1973 William Coombs Baker Prize for Physics, Queen's University (highest grade in first year physics).

3.1 Invited Plenary Lectures

- 2022 Presidential Address, Annual Meeting of the *American Law and Economics Association*, New York, August 2022.
- 2019 Keynote address on “The Law and Economics of the Breach Event” to the Workshop on Organizational Economics, Barcelona Summer School, Barcelona, June 2019.
- 2018 Presidential Address, Annual Meeting of the *Society of Institutional and Organizational Economics*, Montreal, June 2018.
- 2016 Keynote Address on Opportunism in Relational Contracts, Sept 24, 2017, at Annual Conference on Relational Contracts, Madrid, Spain.
- 2015 Keynote Address on Theory and Evidence in Labor Economics, June 29, World Congress for the Society of Labor Economics, Montreal, Canada.
- 2015 Keynote Address on Theory and Evidence in Labor Economics, May 29, Canadian Economics Association Meetings, Toronto, Canada.
- 2012 Leon Levy Lecture, Pay for Performance or Performance for Pay, April 26, Institute for Advanced Studies, Princeton, NJ.
- 2010 Keynote address to *Extended Education Cluster Meeting* for UNICEF, October 25-28, New York.
- 2010 Keynote address to TILEC conference on *Economic Governance and Competition*, Tilburg, The Netherlands (September).
- 2010 Address to the World Congress for the Society of Labor Economics, London, England on *Compensation and Employment* (June).
- 2010 Keynote Lecture at CSEF-IGIER Symposium on Economics and Institutions (CISEI), Villa Orlandi, Anacapri, Italy (June).
- 2003 Invited speaker at the Summer Institute for Institutional Economics on *Incentives and Subjective Evaluation*, Corsica, France (April).

- 2002 Keynote speaker at the *Venice Summer Institute on The Employment Contract and the Changing Organization of Labor in Europe* (July 19-20).
- 1999 Plenary address “Cognition and the Theory of Firm”, *Western Economics Association Meetings*, San Diego, (July), as part of a panel consisting of Harold Demsetz, UCLA, Michael Jensen, Harvard University and Oliver Williamson, UC Berkeley.
- 1998 Benjamin Meaker Public Lecture, “Thought or Reflex?”, Bristol University, England, June, 1996.
- 1996 Harold Innis Memorial Lecture: “Economics for a Complex and Confusing World”, *Annual meeting of the Canadian Economics Association*, St. Catharines, Ontario, May 1996.

4 Research

4.1 Book

- *Advanced Microeconomics for Contract, Institutional and Organizational Economics*, MIT Press, April 2022.

4.2 Research in Progress

- Bai, Jessica, Matthew, Esche, W. Bentley MacLeod, and Yifan Shi, “Subjective Evaluations and Stratification in Graduate Education.” National Bureau of Economic Research, November 2022. Working Paper.
- MacLeod, W. Bentley, Victoria Valle Lara, and Christian Zehnder. “Worker Empowerment and Subjective Evaluation: On Building an Effective Conflict Culture.” National Bureau of Economic Research, September 2020. Working Paper.
- MacLeod, W. Bentley. “Welfare Analysis of Competitive Insurance Markets with Vertical Differentiation and Adverse Selection.” National Bureau of Economic Research, March 2021. Working Paper.

4.3 Articles and Book Chapters

1. “Editorial Preface: Past and Future Developments in the Economics of Relational Contracts”, joint with Matthias Fahn and Gerd Muehlheusser, forthcoming *Journal of Institutional and Theoretical Economics*, 2023.
2. “Implicit Contracts, Incentive Compatibility, and Involuntary Unemployment: Thirty Years On”, joint with James Malcomson, forthcoming *Journal of Institutional and Theoretical Economics*, 2023. Working Paper Version
3. Mandatory Retirement for Judges Improved the Performance of U.S. State Supreme Courts” joint with Elliott Ash, Forthcoming, *American Economic Journal: Economic Policy*. Working Paper Version
4. “Reducing Partisanship in Judicial Elections Can Improve Judge Quality: Evidence from U.S. State Supreme Courts”, joint with Elliott Ash, *Journal of Public Economics*, 201, 2021.
5. “Why Does the United States Have the Best Research Universities? Incentives, Resources, and Virtuous Circles,” joint with Miguel Urquiola, *Journal of Economic Perspectives*, Winter 2021, 35(1), 185-206.
6. “Unsupervised Extraction of Workplace Rights and Duties from Collective Bargaining Agreements”, Elliott Ash, Jeff Jacobs, Bentley MacLeod, Suresh Naidu, and Dominik Stammach, *Proceedings of the 20th IEEE International Conference on Data Mining -- International Workshop on Mining and Learning in the Legal Domain (ICDM-MLLD)*. 2020.
7. “Understanding Doctor Decision Making: The Case of Depression Treatment”, joint with Janet M. Currie, *Econometrica*, May 2020, Vol. 88, No. 3, 847-878.
8. "Is Education Consumption or Investment? Implications for School Competition," with Miguel M Urquiola, *Annual Review of Economics*, Vol. 11(1), pp. 563-589, 2019.
9. The Big Sort: College Reputation and Labor Market Outcomes, joint with Evan Riehl, Juan Saavedrea and Miguel Urquiola, *American Economics Journal: Applied Economics*, Volume: 9 Issue: 3 Pages: 223-261, July 2017.

10. Viewpoint: The Human Capital Approach to Causal Inference, *Canadian Journal of Economics*, Vol. 50, No. 1, February 2017 (based on public lecture at the Canadian Economics Association, May 2015).
11. Diagnosis and Unnecessary Procedure Use: Evidence from C-sections, with J. Currie, *Journal of Labor Economics*, Vol 35, No. 1, 1-43, 2017.
12. Human Capital: The missing link between behavior and rational choice, *Labour Economics*, Volume 41, Pages 20-312, August 2016. (based upon public lecture at the Society of Labor Economists, June 2015)
13. Diagnosis and Physician Practice Style and Patient Health Outcomes: The Case of Heart Attacks, with J. Currie and Jessic van Parys, *Journal of Health Economics*, Volume 47, pp 64-80, 2016.
14. Comments on “Incomplete Contracts and the Internal Organization of Firms” by P. Aghion, N. Bloom and J. Van Reenen. *The Impact of Incomplete Contracts on Economics*”, conference in honor of S. Grossman and O. Hart, P. Aghion, M. Dewatripont, and L. Zingales (editors), Oxford University Press, January 2016.
15. Reputation and School Choice, with Miguel Urquiola, *American Economic Review*, 105(11), pp 3471-3488. December, 2015.
16. Intrinsic Motivation in Public Service: Theory and Evidence from State Supreme Courts, with Elliott Ash, *Journal of Law and Economics.*, 58 (4), 2015. (supported by NSF SES-1260875).
17. Transactions Costs and the Employment Contract in the US Economy, with Daniel Parent. *Journal of Law, Economics and Organization*, 31(supp 1), 40-76, 2015.
18. “Institutions and Contract Enforcement,” with Armin Falk and David Huffman, *Journal of Labor Economics*, 33 (3), July 2015.
19. “Savage Tables and Tort Law: An Alternative to the Precaution Model,” with Janet M. Currie. *Chicago Law Review*, Volume: 81 Issue: 1 Pages: 53-82, March 2014.
20. Competition and Educational Quality: Incentives Writ Large, with Miguel Urquiola, in *Education Policy in Developing Countries*, Paul

Glewwe, editor, Chapter 7, University of Chicago Press, Chicago, IL, 2013.

21. On Economics: A Review of Why Nations Fail by D. Acemoglu and J. Robinson and Pillars of Prosperity by T. Besley and T. Persson, *Journal of Economic Literature*, 51, pp. 116-43, 2013.
22. Contracts between Legal Persons, with Lewis Kornhauser, in *The Handbook of Organizational Economics*, Robert Gibbons and John Roberts, editors, December 2012, Princeton University Press, Princeton, NJ.
23. Introduction to "Job Characteristics and the Form of Compensation", with Daniel Parent, *Research in Labor Economics*, (Solomon W. Polachek and Konstantinos Tatsiramos, editors), 2012, Vol 35, page 603-606.
24. Contract Form, Wage Flexibility, and Employment, joint with Thomas Lemieux and Daniel Parent, *American Economic Review*, May 2012, Vol 102(3): 526-531.
25. Accidental Death and the Rule of Joint and Several Liability, joint with Daniel Carvell and Janet Currie, *Rand Journal of Economics*, Spring 2012, Vol. 43(1), pp. 51-77.
26. Great Expectations: Law, Employment Contracts, and Labor Market Performance, in *Handbook of Labor Economics*, Vol 4, edited by O. Ashenfelter and D. Card, 2011, pp 1591-1696.
27. Contracting in the Shadow of the Law, with Surajeet Chakravarty. *Rand Journal of Economics*, 2009, 40, 533-557.
28. Performance Pay and Wage Inequality, with Thomas Lemieux and Daniel Parent, *Quarterly Journal of Economics*, February 2009, Vol 124, No. 1, 1-49.
29. First Do No Harm? Tort Reform and Birth Outcomes, with Janet Currie, *Quarterly Journal of Economics*, May 2008, Vol. 123, No. 2, pp. 795-830. (One of five finalists for NIHCM Foundation's 15th Annual Health Care Research Award and reprinted in *The Economics of Health Law*, Ronen Avraham, David A. Hyman and Charles M. Silver (eds), Edward Elgar, 2016)) (Supported by the NSF)

30. Holdup and the Evolution of Bargaining Norms, with Herbert Dawid, *Games and Economic Behavior*, 2008, 62, pp. 26-52. (Supported by the NSF)
31. Can Contract Theory Explain Social Preferences, *American Economic Review*, May 2007, 97 (2) .
32. Can Wrongful Discharge Law Enhance Employment?, joint with Voprprapa Nakavachara, *Economic Journal*, 117, F218-F278, 2007.
33. Reputations, Relationships and Contract Enforcement, *Journal of Economic Literature*, XLV, September, 2007, 597-630. (Lusk) Reprinted in *The Economics of Organization and Bureaucracy*, edited by Peter M. Jackson, *Recent Developments in the Economics of Information*, edited by Professor Cristiano Antonelli, and *The Economics of Reputation*, edited by Jill J. McCluskey, and Jason Winfree.
34. Three Solitudes in Contract: Law, Data and Theory, *Scottish Journal of Political Economy*, 54(5), November, 2007, 606-616.
35. Tenure Is Justifiable, *Behavioral and Brain Sciences*, 2006, 29(6), pp. 581-582.
36. Welfare Economics with Intransitive Revealed Preferences: A Theory of the Endowment Effect, joint with H. Lorne Carmichael, *Journal of Public Economic Theory*, 8 (2), 2006, 193-218.
37. Aspiration Uncertainty: Its Impact on Decision Performance and Process, with Mark Pingle, *Journal of Economic Behavior & Organization*, 2005, 56(4), pp. 617-29.
38. Beyond Master-Servant: A Critique of Vicarious Liability, in *Exploring Tort Law* (Stuart Madden, ed.) (Cambridge Univ. Press 2005), with Jennifer Arlen.
39. Cut to the Bone? Hospital Takeovers and Nurse Employment Contracts, *Industrial and Labor Relations Review*, 2005, 58(3), pp. 471-93, joint with Janet Currie and Mehdi Farsi.
40. Regulation or Markets? The Case of Employment Contracts, *CESifo Economic Studies*, 2005 51 (1): 1-46.

41. Torts, Expertise and Authority: Liability of Physicians and Managed Care Organizations, with Jennifer Arlen. *Rand Journal of Economics*, Autumn 2005, Volume 36, No. 3
42. Contracts, in A. Kuper and J. Kuper, *The Social Science Encyclopedia*. London ; New York: Routledge, 2004.
43. Caring about Sunk Costs: A Behavioral Solution to Hold-up Problems with Small Stakes, with H. Lorne Carmichael, *Journal of Law, Economics and Organization*, 19 (1), Spring 2003, 106-118. (Supported by the NSF)
44. Malpractice Liability for Physicians and Managed Care Organizations, with Jennifer Arlen, *New York University Law Review*, 78 (6), December, 2003, 1929-2006.
45. Optimal Contracting with Subjective Evaluation, *American Economic Review*, March 2003, 93 (1), 216-240. (Supported by the NSF)
46. Complexity, Bounded Rationality and Heuristic Search, *Contributions to Economic Analysis & Policy of The B.E. Journals in Economic Analysis & Policy: Vol 1: No. 1, Article 1*, 2002. (Supported by the NSF)
47. Complexity and Contract, *Revue d'Economie Industrielle*, 92, trimestre 2000. Reprinted with modifications in *The Economics of Contract in Prospect and Retrospect*, edited by Eric Brousseau and Jean-Michel Glachant, Cambridge University Press, 2002, pp 213-240.
48. Hold-up and the Evolution of Bargaining Conventions, with Herbert Dawid, University of Southern California. *European Journal of Economic and Social Systems*, 2001, 15, N. 3, 153-169. (Supported by the NSF)
49. Supply Side Hysteresis: the Case of the Canadian Unemployment Insurance System, with Thomas Lemieux, *Journal of Public Economics*, October 2000, 78(1-2), pp. 139-170.
50. Worker Cooperation and the Ratchet Effect, with Lorne Carmichael. *Journal of Labor Economics*, January 2000, 18, pp. 1-19. (Awarded the

2002 H. Gregg Lewis Prize. Reprinted in *Recent Developments in Labor Economics*, edited by John T. Addison, Edward Elgar Publishing, 2007)

51. Comments on "Public and Private Bureaucracies: A Transaction Cost Economics Perspective", by Oliver Williamson, *Journal of Law, Economics and Organization*, March 1999, V 15, No. 1, 343-344.
52. Job Characteristics, Wages, and the Employment Contract, with Daniel Parent, *Federal Reserve Bank of St. Louis Review*, Vol. 821, No. 3, May/June 1999: pp. 13-28. (Supported by the NSF)
53. Job Characteristics and the Form of Compensation, with Daniel Parent, *Research in Labor Economics*, Vol. 18, JAI Press, 1999: pp. 177-242. Reprinted in anniversary volume of *Research in Labor Economics*, (Solomon W. Polachek and Konstantinos Tatsiramos, editors), 2012, Vol 35, page 603-672. (Supported by the NSF)
54. Is Multi-tasking Complex?, Commentary on the target article "Processing capacity defined by relational complexity: Implications for comparative, developmental, and cognitive psychology," by G. Halford, W. Wilson and S. Phillips. *Behavior and Brain Sciences*, 1998, 21, 840-841.
55. Motivation and Markets, with Jim Malcomson, *American Economic Review*, July 1998, Vol 88, pp. 388-411.
56. A Review of Dual Labor Markets: Macroeconomic Perspective, by Gilles Saint-Paul, *Industrial and Labor Relations Review*, April 1998.
57. Gift Giving and the Evolution of Cooperation, with Lorne Carmichael. *International Economic Review*, July 1997, Vol. 38, pp. 485-509.
58. Review of Personnel Economics: The Wicksell Lectures by Edward P. Lazear. *Journal of Political Economy*, June 1997, pp. 652-655.
59. Decision, Contract and Emotion: Some Economics for a Complex and Confusing World, Harold Innis Memorial Lecture 1996 CEA meetings. *The Canadian Journal of Economics*, November 1996, Vol 29, pp. 788-810.

60. Administrative Corruption and Efficient Taxation, with Frank Flatters, *International Tax and Public Finance*, 2, 1995, 397-417. Reprinted in *The Economics of Corruption and Illegal Markets*, edited by G. Fiorentini and S. Zamagni, International Library of Critical Writings in Economics, Edward Elgar.
61. Contract Bargaining With Symmetric Information, with James Malcomson, *The Canadian Journal of Economics*, 28, May, 1995, 336-67.
62. Incentives in Organizations: An Overview of Some of the Evidence and Theory, in Horst Siebert (ed.), *Trends in Business Organization*, The Kiel Institute of World Economics, 1995.
63. Equilibrium Selection in Experimental Games with Recommended Pay, with Jordi Brandts, *Games and Economic Behavior*, 11, 1995. 36-63.
64. State Dependence and Unemployment Insurance, with Thomas Lemieux, Technical Report No. 4, Human Resources Canada, 1995.
65. Turnover Costs, Efficiency Wages and Cycles, with James Malcomson, *Annales d'Economiques et Statistique*, 37/38, Janvier/Juin, 1995, 55-74.
66. Labour Turnover and the Natural Rate of Unemployment: Efficiency Wage vs Frictional Unemployment, with James Malcomson and Paul Gomme, *Journal of Labor Economics*, 12, no.2, 1994, 276-315.
67. Continuous Time Repeated Games, with James Bergin, *International Economic Review*, 34(1), February 1993, 21-37.
68. Efficiency and Renegotiation in Repeated Games, with James Bergin, *Journal of Economic Theory*, 61, 1993, pp. 42-73.
69. Investments, Holdup, and the Form of Market Contracts, with James Malcomson, *American Economic Review*, 83, 1993, 811 - 837.
70. Multi-skilling, Technical Change and the Japanese Firm, with Lorne Carmichael, *Economic Journal*, 103(416) January 1993, 142-160.
71. The Role of Exit Costs in the Theory of Cooperative Teams: A Theoretical Perspective, *Journal of Comparative Economics*, 17, June 1993, 521-529.

72. Specific Investment and Wage Profiles in Labour Markets, with Jim Malcomson, *European Economic Review*, 37, May 1993, 343-354.
73. Wage Premiums and Profit Maximisation in Efficiency Wage Models, with James Malcomson, *European Economic Review*, 37, 1993, 1223-1249.
74. Firm Reputation and Self-Enforcing Labor Contracts, with Yoshitsugu Kanemoto, 1992, *Journal of Japanese and International Economies*, 6, 144-162.
75. Les contrats auto-exécutoires et la théorie des institutions du marché du travail, *Actualité économique/Revue d'analyse économique*, 68, September 1992, 433-476.
76. Selección De Equilibrios En Juegos Experimentales Con Recomendaciones, with Jordi Brandts, *Investigaciones Economicas*, 1992, 0(0), pp. 67-71.
77. The Ratchet Effect and the Market for Second-Hand Workers, with Yoshitsugu Kanemoto, 1992, *Journal of Labor Economics*, 10, 85-98
78. Spatial Competition and the Core, with Jonathan Hamilton and Jacques Thisse, 1991, *Quarterly Journal of Economics*, 106, 925-937.
79. The Theory of Contracts and Practices in Japan and the United States, with Yoshitsugu Kanemoto, 1991, *Managerial and Decision Economics*, 12, 159-170.
80. Review of Information, Incentives, and Bargaining in the Japanese Economy by Masahiko Aoki, *Journal of Economic Behavior and Organization*, 13, 409-411, 1990.
81. Entry, Sunk Costs and Market Structure: Reply, 1989, *Canadian Journal of Economics*, 22, pp. 438-441.
82. Entry, Sunk Costs and Renegotiation in Duopoly, joint with Jim Bergin, *Annales d'Economiques et Statistique*, 15/16, pp. 173-191, 1989.
83. Implicit Contracts, Incentive Compatibility and Involuntary Unemployment, with J. Malcomson, 1989, *Econometrica*, Vol 56, No. 2,

- March, 447-480. Reprinted in *The Economics of Contracts* edited by Patrick Bolton, The International Library of Critical Writings in Economics, Edward Elgard.
84. Optimal Labor Contracts with Non-Contractible Human Capital, with Yoshitsugu Kanemoto, 1989, *Journal of Japanese and International Economies*, 3, pp. 385-403.
 85. Review of Strategic Behaviour and Industrial Competition, edited by D. J. Morris, P. J. N. Sinclair, M. D. E. Slater and J. S. Vickers, *Economica*, November, 1989.
 86. Equity, Efficiency and Incentives in Co-operative Teams, 1988, in *Advances in the Economic Analysis of Participatory and Labor Managed Firms*, Volume 3, 5-23, J.A.I.
 87. Price Discrimination and Equilibrium in Monopolistic Competition, with George Norman and Jacques Thisse, 1988, *International Journal of Industrial Organization*, 6, pp. 429-46. Reprinted in *Market Strategy and Structure*, edited by A. Gee and G. Norman, *The Economics of Price Discrimination*, The International Library of Critical Writings in Economics, Edward Elgard.
 88. Reputation and Hierarchy in Dynamic Models of Employment, with J. Malcomson, 1988, *Journal of Political Economy*, 96, pp. 832-54.
 89. Behavior and the Organization of the Firm, 1987, *Journal of Comparative Economics*, 11, pp. 207-220.
 90. Entry, Sunk Costs and Market Structure, 1987, *The Canadian Journal of Economics*, 20, February, pp. 140-151.
 91. Involuntary Unemployment in Dynamic Contract Equilibria, with James Malcomson, 1987, *European Economic Review*, 31, February/March, pp. 427-435.
 92. Competition, Tacit Collusion and Free Entry, with G. Norman and J. Thisse, 1987, *Economic Journal*, 97, March, 189-198.
 93. On adjustment costs and the stability of equilibria, *The Review of Economic Studies*, 52, 1985, 575-592.

94. On the non-existence of equilibria in differentiated product models, 1985, *Journal of Regional Science and Urban Economics*, 15, 245-262.
95. A Theory of Conscious Parallelism 1985, *European Economic Review*, 27, 25-44.
96. A theory of cooperative teams, CORE discussion paper 8441, Louvain-la-Neuve, 1984.
97. The core and oligopoly theory, CORE discussion paper 8331, Louvain-la-Neuve, 1983.

5 Grants and Fellowships

- 2020-2021 Sponsored NSF SES 1949415, Doctoral Research Grant to support Daniel Deibler, \$29,160.
- 2018-2023 Center for Health and Well Being, Princeton University to an Aging, Retirement and Health, \$40,000.
- 2017-2018 Department of Labor Scholars Program grant to support graduate student Daniel Deibler, \$49,000.
- 2017-2018, Equitable Growth Grant on “Languages, Laws and Labor Contracts”, with Suresh Naidu, \$80,000.
- 2017, ISERP grant for SIOE conference, Columbia University, \$10,000.
- 2015-2017 NSF Grant SES-1459932 “Language, Laws, and Labor Contracts in the 20th Century Award”, with Suresh Naidu, \$160,000.
- 2013-2018 NSF Grant SES-1260875, "A Study Into the Effect of Employment Conditions Upon Judicial Behavior and Performance," \$228,000.
- 2012-2013 PER seed grand for Research on Incentive compensation, \$6,000.
- 2010-2012 SIPA seed grant for Research on Education Policy - with Miguel Urquiola, \$15,000.

- 2010-2011 International Growth Center Grant to work on education in Africa, £44,000.
- 2006-10 National Science Foundation Grant SES-06-17892 "First Do No Harm? The Effects of Tort Reform on Outcomes and Procedures at Birth," with Janet Currie, \$193,136.
- 2004 Lusk Center Research Grant, \$10,000.
- 2001-03 National Science Foundation Grant SBE-0095606 on "The Evolution of Bargaining Conventions," joint with Herbert Dawid, \$96,568.
- 1997-01 National Science Foundation Grant SBE-9709333 for the project "Complexity, contract and compensation," \$227,999.
- 1991-93 FCAR, Quebec for research on labor economics.
- 1982-97 Continuous funding by the Social Sciences and Humanities Research Council of Canada for projects on organization and contract theory.
- 1985-87 SSHRC Postdoctoral Fellowship
- 1983 Research Fellowship - Université Catholique de Louvain
- 1980-82 SSHRC Doctoral Scholarship.

6 Professional Affiliations

- Faculty Affiliate, Center for Health and Well Being, Princeton University, 2023-.
- Research Associate, National Bureau for Economic Research, since 2007 (affiliated with the programs in labor studies, law and economics, and health economics).
- Research Fellow, CESinfo, Munich, Germany, since 2002.
- Research Associate, CIRANO, Montreal, Canada, since 1997.
- Research Fellow, IZA Bonn, since 2003.

- Department Affiliate, Center for Health and Well Being, Princeton University, 2016-2022.
- Member of Econometric Society, American Economics Association, American Law and Economics Association, Society of Labor Economists, Canadian Economics Association, Society of Institutional and Organizational Economics.
- Affiliated Faculty, *Center for Contract and Economic Organization*, Columbia Law School, 2006-present
- Affiliated Faculty, *Center on Global Economic Governance*, SIPA, Columbia University.
- Member, *Columbia Committee on the Economics of Education*, Columbia University.
- Member, *Center for Development Economics and Policy (CDEP)*, SIPA, Columbia University.

7 Graduate Teaching

7.1 Courses

- 2023-, Labor Economics, Law and Public Policy, SPIA, Princeton University
- 2016-2021, Graduate Micro Economics, Columbia University
- 2006-2008, 2012-2021 Economics, Law and Public Policy (SIPA and Columbia Law School)
- Aug 29 - September 1, 2016. Course on New Frontiers in Human Capital, NHH, Bergen, Norway (course given jointly with Janet M Currie, Princeton University).
- 2006-2008, 2012-2015 Graduate Labor Economics, Columbia University
- Lectures on Contract Theory, Sorbonne (Paris I), Paris, Spring 2013.

- Graduate Mathematical Methods (required first year economics graduate course), Fall 2008, Fall 2009.
- Graduate Seminar in Applied Micro-economics, 2006-2010.
- Lectures on Contract Theory, ISNIE, Nanterre, France, 03/2009.
- Seminar in Law, Economics and Finance (with Ailsa Roell), Columbia University, 2005-06.
- Graduate Microeconomics (Decision and Game Theory) - 1997-2003, 2004-2005, 2006-2008.
- Graduate Contract Theory and Labor Economics and Undergraduate Labor Economics - Caltech, 2002.
- Graduate Industrial Organization - USC, 2000-2002.
- Graduate and Undergraduate Law and Economics, USC, 2001, 2005.
- Seminar in Law, Economics and Organization (joint with Economics, the Law School and the Business School at USC) - 1997-2003, 2004-2005.
- Graduate Labor Economics and Industrial Organization - Princeton, 2003-04.
- Lectures on Contract Theory, International Summer School - Kolpinghaus auf Schönburg, D-55430 Oberwesel/Rhein, organized by the Department of Economics, Bonn University, 08/2000.
- Lectures on Contract Theory, Department of Economics, Queen's University, Kingston, Canada, 07/2000.

7.2 Graduate Supervision (with first job listed)

- Roman Rivera, PhD Columbia, 2023, Postdocs at Berkeley and Princeton.
- Daniel Deibler, PhD, Columbia University, 2022, Federal Trade Commission, Washington, DC.

- Lorezo Lagos, (Committee Chair), PhD, Columbia University, 2020, Assistant Professor, Brown University.
- Zhang, Qing, PhD, Columbia University, 2019, Senior Associate, Charles Rivers Associates.
- Xuan Li, PhD, Columbia University, 2019, HKUST Business School.
- Geng, Tong, PhD, Columbia University, 2018, Data Scientist, Google Ads.
- Ding Yuan, PhD Columbia University, 2017, Amazon Corporation.
- Maria Micaela Sviatschi, PhD, Columbia University, 2017, Assistant Professor Princeton University.
- Evan Riehl, PhD, Columbia University, 2017, Assistant Professor, Cornell University.
- Teck Yong Tan, PhD, Columbia University, 2017, Nanyang Technological University.
- Elliott Ash, PhD Columbia University, 2016, Chair in Law and Economics, ETH Zurich.
- Xing Xia, PhD Columbia University 2016, Assistant Professor, Yale University in Singapore.
- Naihobe Gonzalez, PhD Columbia University, 2015, Mathematica, San Francisco.
- Ferran Elias Moreno, PhD Columbia University, 2015, Assistant Professor, Copenhagen University.
- Wooram Park, PhD, Columbia University, 2013, Korea Development Institute.
- Wilfredo Lim, PhD, Columbia University, 2012, Mathematica, San Francisco.
- Lesley Turner, PhD, Columbia University, 2012, University of Maryland (tenured, now at Vanderbilt).

- Raicho B. Bojilov, PhD, Columbia University, Spring 2011, Ecole Polytechnique.
- Soloman Hsiang, PhD, Columbia University, Spring 2011, Berkeley.
- Belyou Haile, International Food Policy Research Institute, Washington, DC. PhD Columbia University, Fall 2011.
- Daniel Carvell, PhD, Columbia University, Fall 2010, Center for Naval Analysis.
- Yinghua He, PhD, Columbia University, Spring 2010, University of Toulouse.
- Johannes Schmieder, PhD, Columbia University, Spring 2010, Boston University (tenured).
- Stephan Litschig, PhD, Columbia University, May 2008, National Graduate Institute for Policy Studies (tenured), Japan.
- Voraprapa Nakavachara, PhD, USC, October 2007, Chulalongkorn University, Thailand.
- Bharat Bhole, PhD, USC, Fall 2003, Rochester Institute of Technology (tenured).
- Mehdi Farsi, PhD, USC, Spring 2002, Chair of Microeconomics of the Public Sector, University of Neufchatel.
- Surajeet Chakavarty, PhD, USC, Spring 2002, Reader, University of Exeter..
- Charles Pell, J.D./M.A., USC, 2000, Assistant U.S. Attorney, United States Attorney's Office, Central District of California..
- David N. Mishol, MA. Ph.D., Boston College, 1999, Vice-President, Analysis Group/Economics, Boston.
- Jean Fares, Ph.D., Université de Montréal, 1996, Advisor, Prime Minister's Office, UAE.
- Daniel Parent, Ph.D., Université de Montréal, 1995, Professor of Economics, HEC, Université de Montréal, Canada.

- Paula Peare, Ph.D., Queen's University, 1990.
- Peter Kennedy, Ph.D., Queen's University, 1988, Professor, University of Victoria, Victoria, BC, Canada.

8 Service

8.1 Service to the Academic Community

- Committee to select NBER affiliates to the Law and Economics Program, *National Bureau for Economic Research*, 2023.
- Editor of Special Issue on Relational Contracts for *Journal of Institutional and Theoretical Economics* (JITE), 2021-23
- Associate Editor, *Rand Journal of Economics*, 2020-present.
- Editorial Advisory Board, *Journal of Institutional and Theoretical Economics* (JITE) 2020-present.
- Editorial Advisory Board, *Journal of Participation and Employee Ownership*, 2017-present
- Editorial Board, *Journal of Law, Economics and Organization* - 2/2012 - present.
- Lead reviewer for curriculum review and development, African Economic Research Consortium (AERC) 2020-21.
- Lectures on Frontiers in Human Capital, Norwegian School of Economics, NHH, Bergen, Norway, August 29- September 1, 2016, joint with Janet M Currie, Princeton University.
- 2015 Mincer Prize Committee, *Society of Labor Economics*.
- 2nd Vice-President, International Society for New Institutional Economics, 2015-16.
- 2014 Rosen Prize Committee, *Society of Labor Economics*.

- Panelist on Constructive Perspectives: Are New York’s Construction Safety and Insurance Laws Serving the Public?, Continuing Legal Education Panel, New York Bar Association, March 13, 2014.
- Co-Editor - *Journal of Law, Economics and Organization* - 12/2009 - 2/2012.
- Co-Editor - *Journal of Labor Economics* - 09/2003 - 2011.
- Associate Editor - *Journal of Economic Behavior and Organization* - 08/2002 - 01/2010.
- Served on Brookings Panel to produce report *Expanding Choice in Elementary and Secondary Education*, with Jay Greene, Tom Loveless, Thomas Nechyba, Paul Peterson, Meredith Rosenthal, and Grover Whitehurst, 2010.
- Associate Editor, 1994-1996, *Journal of Comparative Economics*.
- Over the years have been a referee for more than 30 journals and National Funding Panels for various countries, and many external letters of recommendation. I usually get the “Excellence in Refereeing Award” by the American Economics Association every year.

8.2 Conference Organization

- Organizer, *American Law and Economics Association*, Annual Conference, Columbia University, August 2022.
- Program Committee, *American Law and Economics Association*, Annual Conference, University of Chicago, May 2020.
- Program Committee, *Society of Labor Economics*, World Congress, Berlin, June 2020.
- Program Committee, *American Law and Economics Association*, Annual Conference, New York, May 2019.
- Program Committee, *Society of Labor Economics*, Annual Conference, Toronto, May 2018.

- Chair, Program Committee, *Society of Institutional and Organizational Economics*, Columbia University, June 2017.
- Program committee, *Society of Labor Economists Conference*, Montreal, June 2015.
- Organized Panel on Why Nations Succeed: Social, Economic and Legal Building Blocks, April 3, 2014, Columbia University.
- Organizer (with Robert Scott, Suresh Naidu, and Jan Svenjar), Conference on Legal Innovation: Law, Economics and Governance, Columbia University, April 4, 2014.
- Program Committee, 18th Annual Conference of The International Society for New Institutional Economics in Durham, NC, USA, June 19 – 21, 2014.
- Area organizer (labor and discrimination) for the 2013 American Law and Economics Association Annual Meetings.
- Area organizer (contracts) for the 2012 American Law and Economics Association annual meetings.
- Program Committee, Annual meeting, Society of Labor Economics, Vancouver, May 2011.
- Area organizer (contracts) for the 2010 American Law and Economics Association annual meetings, Princeton, NJ.
- Organizer of Second IZA Workshop on Behavioral and Personnel Economics, IZA, Bonn, May 25-26, 2007.
- Organizer of IZA Topic Week on Labor Market Institutions, IZA, Bonn, July 1-6, 2006.
- Area organizer (labor and health) for the 2006 American Law and Economics Association annual meetings.
- Co-organizer, with Patrick Bolton, Jeffery Gordon, Ailsa Roell, and Robert Scott, Contract Design and the Role of Institutions, Columbia Law School, April 7-8, 2006.

- Organizer of First IZA Workshop on Behavioral and Personnel Economics, IZA, Bonn, May 30-31, 2005.
- Area organizer (contracts) for the 2003 American Law and Economics Association annual meetings.
- Conference on Economic Behavior and Organization, to be held in honor of Richard H. Day on April 26-27, 2003, USC.
- Mechanism Design and the Law - Center for Law, Economics and Organization, USC, February 23-24, 2002.
- Second colloquium on Routines, Production Habits, and Bounded Rationality will be held at the University of Aix-Marseille, Aix-en-Provence, France on June 20-21, 2002.
- Behavioral Economics and the Law, Center for Law, Economics and Organization conference, June 2-3, 2001 at University of Southern California, with Jennifer Arlen, Colin Camerer and Eric Talley.
- Program committee, North American Meetings of the Econometric Society, Chicago, January 1998.
- 5th Canadian Labor Conference, joint with P-Y. Crémieux, P. Lanoie and T. Lemieux, University of Montreal, Montreal, June 5-7, 1995.
- Organized series of invited survey papers at the Canadian Economic Association Conference, Charlottetown, P.E.I., Canada, June 1993. Papers published in the *Canadian Journal of Economics* 1995.
- International Conference on “Incentives and Contracts”, joint with Lorne Carmichael, CRDE, University of Montreal, Montreal, June 13-14, 1992.

8.3 Columbia University

- Technical Assistance, PhD Admissions, Economics, 2022- (Pro Bono).
- Chair, PhD Admissions, Economics, 2017-2022.
- Chair, Faculty Research Awards Committee, SIPA, 2019-2022.

- Chair, Steering committee, Micro-economic Theory Initiative, 2017-2022
- Faculty Development Committee, SIPA, 2015-2019.
- Promotion and Tenure Committee, College of Arts and Sciences, 2013-2017
- PhD admissions committee, Department of Economics, 2015-2017
- Placement Chair, PhD program in Sustainable Development, SIPA, 2016-2017
- Faculty Development Committee, School of International and Public Affairs, 2013-2017.
- Chair, Computing Committee, Department of Economics, Columbia University, 2014-2016
- Steering Committee, Program for Economic Research, Columbia University, 2014-2016
- Organizer (with Robert Scott) and Moderator for Public Panel on “Why Nations Succeed?”, April 3, 2014, sponsored by the Economics Department, SIPA and Columbia Law School.
- Chair, committee on PhD program in Global Public Policy for SIPA, 2010-2014.
- Board of Advisers, Center for Contract and Economic Organization, Columbia Law School, 2006-
- Graduate Placement, Department of Economics, 2012-2013.
- Program in Economic Research Steering Committee, 2012-2013.
- Manhattanville Planning Committee, 2008- 2010.
- Faculty Development Committee, Faculty of Arts and Science (all Arts and Science promotion cases) 2008 - 2010.
- Chair, Space Committee, Department of Economics, 2006-2010.

- Member, Computer Committee, Department of Economics, 2007-2009
- Co-Director, Program for Economic Research, 2006-2008.
- Co-Chair, junior hiring, Department of Economics, 2005-06.

8.4 University of Southern California

- Co-Executive Director, Center for Law, Economics and Organization 2000 - 2003, 2004-2005.
- Senior Hiring Committee, Department of Economics - 1997-2001, 2004-2005, Chair 1997-2000.
- Junior Hiring Committee, Department of Economics - 1999-2001, Chair 2000-2001, 2002-2003.
- Chair Executive Committee, Department of Economics - 2000-2001.
- Social Sciences Promotion Committee, College of Letters, Arts and Sciences, 1997-2001, Chair 1999-2001.
- Ph.D. exam committee 1997 - 2005.
- Director, Law and Economics Program, Department of Economics, 1997 - 2003, 2004-2005.
- Faculty Council, College of Letters, Arts and Science, 2001 - 2003.
- Member of review committee, Marshall School of Business, 2002 - 2003.
- Member of University Committee on Promotion and Tenure, 2002 - 2003.

8.5 Miscellaneous

- 2018-present, Audit Committee, (Chair 2019-present), St. Michael's Church.
- 2018-2021, Member of Vestry, St. Michael's Church (equivalent to member of a non-profit board, in this case the church manages real estate and a cemetery, with a valuation of \$89 million in 2021).

- 2016 - Presentation on managing construction bidding process, American Institute of Architects, November 17, 2016.
- 2013 - present, member, Investment Committee, St. Micheal's Church, New York, NY.
- 2005 - 2020, member , (Co-captain 2019-2020), 4.0 Princeton Club Squash Team, New York.
- 2006 - 2018, Referee and Coach for boy's soccer, West Side Soccer League.