Stanford



Ilya Segal

Roy and Betty Anderson Professor and Professor, by courtesy, in Economics at the Graduate School of Business

Bio

ACADEMIC APPOINTMENTS

- Professor, Economics
- Professor (By courtesy), Economics

ADMINISTRATIVE APPOINTMENTS

- Visiting Researcher, Microsoft Research Silicon Valley, (2008-2008)
- Courtesy appointment, Stanford Graduate School of Business, (2004- present)
- Roy and Betty Anderson Professor in the Humanities and Sciences, Department of Economics, Stanford University, (2002- present)
- Associate Professor of Economics, Stanford University, (1999-2002)
- John Stauffer National Fellow, Hoover Institution, (1998-1999)
- Assistant Professor of Economics, University of California at Berkeley, (1995-1998)
- Visiting Assistant Professor, Massachusetts Institute of Technology, (1995-1995)
- Pew Foundation Visiting Scholar, Harvard University, (1991-1992)

HONORS AND AWARDS

- Test of Time Award for "an influential paper ... published between ten and twenty-five years ago", Association for Computing Machinery Special Interest Group on Economics and Computation (2019)
- Edelman Award for Achievement in Advanced Analytics, Operations Research, and Management Science, Institute for Operations Research and the Management Sciences (2018)
- Citation of Excellence for “the most highly cited and influential paper”, Emerald Publishing (2017)
- Member, American Academy of Arts and Sciences (2017)
- Compass Lexecon Prize, Compass Lexecon (2008)
- Fellowship, John Simon Guggenheim Memorial Foundation (2002-2003)
- Research Fellowship, Alfred P. Sloan Foundation (1999-2001)
- Graduate Research Fellowship, Alfred P. Sloan Foundation (1994-1995)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editor-in-Chief, ACM Transactions in Economics and Computation (2017 - present)
- Member, American Academy of Arts and Sciences (2017 - present)
- Associate Editor, Econometrica (2015 - present)
- Fellow, Society for the Advancement of Economic Theory (2013 - present)

- Associate Editor, Journal of Economic Theory (2013 - 2015)
- Foreign Editor, Review of Economic Studies (2010 - 2016)
- Member, Economics Panel, National Science Foundation (2008 - 2010)
- Member, Program Committee, Bay Algorithmic Game Theory Symposia, BAGT1-BAGT4 (2006 - 2009)
- Member, Toulouse Network on Information Technology (2005 - present)
- Director of Graduate Studies, Economics Department (2005 - 2011)
- Member, Committee on Libraries, Stanford University (2004 - 2007)
- Chair of Graduate Admissions, Economics Department, Stanford University (2004 - 2005)
- Fellow, Econometric Society (2003 - present)
- Director, Stanford Institute for Theoretical Economics (2003 - 2005)
- Member, Editorial Board, American Economic Review (2002 - 2005)
- Member, The Institute for Advanced Study at Princeton (2002 - 2003)
- Editor, B.E. Journals in Theoretical Economics (1999 - 2005)
- Associate Editor, RAND Journal of Economics (1998 - 2006)

PROFESSIONAL EDUCATION

- Ph.D., Harvard University , Economics (1995)
- M.S., Moscow Institute of Physics and Technology , Applied Mathematics (1991)

LINKS

- Segal Website: http://web.stanford.edu/~isegal/

Teaching

COURSES

2026-27

- Contracts, Information, and Incentives: ECON 282 (Win)
- Microeconomic Theory Seminar: ECON 391 (Aut, Win, Spr)
- Microeconomics I: ECON 202 (Aut)

2025-26

- Contracts, Information, and Incentives: ECON 282 (Win)
- Microeconomic Theory Seminar: ECON 391 (Aut, Win, Spr)
- Microeconomics I: ECON 202 (Aut)

2024-25

- Contracts, Information, and Incentives: ECON 282 (Win)
- Microeconomic Theory Seminar: ECON 391 (Aut, Win, Spr)
- Microeconomics I: ECON 202 (Aut)
- Microeconomics III: ECON 204 (Spr)

2023-24

- Contracts, Information, and Incentives: ECON 282 (Win)
- Microeconomic Theory Seminar: ECON 391 (Aut, Win, Spr)

- Microeconomics I: ECON 202 (Aut)
- Microeconomics III: ECON 204 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Luiz Guilherme Carpizo Fernandes Costa, Alex Tordjman

Doctoral Dissertation Advisor (AC)

Joanna Krysta

Publications

PUBLICATIONS

- **Clock Auctions and Radio Spectrum Reallocation** *JOURNAL OF POLITICAL ECONOMY*
  Milgrom, P., Segal, I.
  2020; 128 (1): 1–31
- **Robustly Optimal Auctions with Unknown Resale Opportunities** *REVIEW OF ECONOMIC STUDIES*
  Carroll, G., Segal, I.
  2019; 86 (4): 1527–55
- **Operations Research Enables Auction to Repurpose Television Spectrum for Next-Generation Wireless Technologies** *INTERFACES*
  Kiddoo, J. L., Kwerel, E., Javid, S., Dunford, M., Epstein, G. M., Meisch, C. E., Hoffman, K. L., Smith, B. B., Coudert, A. B., Sultana, R. K., Costa, J. A., Charbonneau, S., Trick, et al
  2019; 49 (1): 7–22
- **Economics and computer science of a radio spectrum reallocation.** *Proceedings of the National Academy of Sciences of the United States of America*
  Leyton-Brown, K., Milgrom, P., Segal, I.
  2017; 114 (28): 7202-7209
- **PROPERTY RIGHTS AND THE EFFICIENCY OF BARGAINING** *JOURNAL OF THE EUROPEAN ECONOMIC ASSOCIATION*
  Segal, I., Whinston, M. D.
  2016; 14 (6): 1287-1328
- **What Makes Them Click: Empirical Analysis of Consumer Demand for Search Advertising** *AMERICAN ECONOMIC JOURNAL-MICROECONOMICS*
  Jeziorski, P., Segal, I.
  2015; 7 (3): 24-53
- **DYNAMIC MECHANISM DESIGN: A MYERSONIAN APPROACH** *ECONOMETRICA*
  Pavan, A., Segal, I., Toikka, J.
  2014; 82 (2): 601-653
- **The Efficiency of Bargaining under Divided Entitlements** *UNIVERSITY OF CHICAGO LAW REVIEW*
  Segal, I., Whinston, M. D.
  2014; 81 (1): 273-289
- **AN EFFICIENT DYNAMIC MECHANISM** *ECONOMETRICA*
  Athey, S., Segal, I.
  2013; 81 (6): 2463-2485
- **Property Rights** *Handbook of Organizational Economics*
  Segal, I. R., Whinston, M.
  edited by Gibbons, R., Roberts, J.
  Princeton University Press.2012

- **A simple status quo that ensures participation (with application to efficient bargaining)** *THEORETICAL ECONOMICS*
  Segal, I., Whinston, M. D.
  2011; 6 (1): 109-125
- **Optimal Information Disclosure** *JOURNAL OF POLITICAL ECONOMY*
  Rayo, L., Segal, I.
  2010; 118 (5): 949-987
- **Nash implementation with little communication** *THEORETICAL ECONOMICS*
  Segal, I. R.
  2010; 5 (1): 51-71
- **The communication cost of selfishness** *JOURNAL OF ECONOMIC THEORY*
  Fadel, R., Segal, I.
  2009; 144 (5): 1895-1920
- **Antitrust in innovative industries** *AMERICAN ECONOMIC REVIEW*
  Segal, I., Whinston, M. D.
  2007; 97 (5): 1703-1730
- **The communication requirements of social choice rules and supporting budget sets** *JOURNAL OF ECONOMIC THEORY*
  Segal, I.
  2007; 136 (1): 341-378
- **Designing efficient mechanisms for dynamic bilateral trading games** *119th Annual Meeting of the American-Economic-Association*
  Athey, S., Segal, I.
  AMER ECONOMIC ASSOC.2007: 131–36
- **Auctions with severely bounded communication** *JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH*
  Blumrosen, L., Nisan, N., Segal, I.
  2007; 28: 233-266
- **Public vs. Private Enforcement of Antitrust Law: A Survey** *European Competition Law Review*
  Segal, I. R.
  2007: 323-32
- **Designing Efficient Dynamic Mechanisms for Dynamic Bilateral Trading Games** *American Economic Review Papers and Proceedings*
  Athey, S. ., Segal, I. R.
  2007: 131–6
- **The communication requirements of efficient allocations and supporting prices** *JOURNAL OF ECONOMIC THEORY*
  Nisan, N., Segal, I.
  2006; 129 (1): 192-224
- **Communication in economic mechanisms** *9th World Congress of the Econometric-Society*
  Segal, I.
  CAMBRIDGE UNIV PRESS.2006: 222–68
- **Designing Efficient Dynamic Mechanisms for Dynamic Bilateral Trading Games** *Combinatorial Auctions*
  Segal, I. R.
  edited by Cramton, P., Shoham, Y., Steinberg, R.
  MIT Press.2006
- **Communication in Economic Mechanisms** *Advances in Economics and Econometrics: Theory and Application, Ninth World Congress (Econometric Society Monographs)*
  Segal, I. R.
  edited by Blundell, R., Newey, W. K., Persson, T.
  Cambridge University Press.2006
- **Exponential Communication Inefficiency of Demand Queries** *Theoretical Aspects of Rationality and Knowledge X*

Nisan, N., Segal, I. R.
2005: 158–164

- **Exponential Communication Inefficiency of Demand Queries** *Theoretical Aspects of Rationality and Knowledge X*
  Fadel, R., Segal, I. R.
  2005: 165–76
- **Coordination and discrimination in contracting with externalities: divide and conquer?** *JOURNAL OF ECONOMIC THEORY*
  Segal, I.
  2003; 113 (2): 147-181
- **Optimal pricing mechanisms with unknown demand** *AMERICAN ECONOMIC REVIEW*
  Segal, I.
  2003; 93 (3): 509-529
- **Robust predictions for bilateral contracting with externalities** *North American Summer Meeting of the Econometric-Society*
  Segal, I., Whinston, M. D.
  WILEY-BLACKWELL PUBLISHING, INC.2003: 757–91
- **Collusion, exclusion, and inclusion in random-order bargaining** *REVIEW OF ECONOMIC STUDIES*
  Segal, I.
  2003; 70 (2): 439-460
- **Multi-player and multi-round auctions with severely bounded communication** *11th Annual European Symposium on Algorithms (ESA 2003)*
  Blumrosen, L., Nisan, N., Segal, I.
  SPRINGER-VERLAG BERLIN.2003: 102–113
- **Multi-Player and Multi-Round Auctions with Severely Bounded Communication**
  Blumrosen, L., Nisan, N., Segal, I. R.
  2003
- **Envelope theorems for arbitrary choice sets** *ECONOMETRICA*
  Milgrom, P., Segal, I.
  2002; 70 (2): 583-601
- **The Mirrlees approach to mechanism design with renegotiation (with applications to hold-up and risk sharing)** *ECONOMETRICA*
  Segal, I., Whinston, M. D.
  2002; 70 (1): 1-45
- **Naked exclusion: Comment** *AMERICAN ECONOMIC REVIEW*
  Segal, I. R., Whinston, M. D.
  2000; 90 (1): 296-309
- **Exclusive contracts and protection of investments** *RAND JOURNAL OF ECONOMICS*
  Segal, I. R., Whinston, M. D.
  2000; 31 (4): 603-633
- **Exclusive Contracts and Protection of Investments** *RAND Journal of Economics*
  Whinston, M., Segal, I. R.
  2000; 31 (4): 603-633
- **Contracting with externalities** *QUARTERLY JOURNAL OF ECONOMICS*
  Segal, I.
  1999; 114 (2): 337-388
- **Complexity and renegotiation: A foundation for incomplete contracts** *REVIEW OF ECONOMIC STUDIES*
  Segal, I.
  1999; 66 (1): 57-82
- **Monopoly and soft budget constraint** *RAND JOURNAL OF ECONOMICS*
  SEGAL, I. R.

1998; 29 (3): 596-609

- **Solutions Manual for "Microeconomic Theory" by Mas-Colell, Whinston, and Green**
  Hara, C., Segal, I., Tadelis, S.
  Oxford University Press.1997

- **VENTILATORY EFFECTS OF CLONIDINE ALONE AND IN THE PRESENCE OF ALFENTANIL, IN HUMAN VOLUNTEERS** *1991 ANNUAL MEETING OF THE AMERICAN SOC OF ANESTHESIOLOGISTS*
  Jarvis, D. A., Duncan, S. R., SEGAL, I. S., Maze, M.
  LIPPINCOTT-RAVEN PUBL.1992: 899–905