October 9, 2020

## Curriculum Vitae

**R O B E R T C . M A R S H A L L**

**PERSONAL**

Age: 64; Citizenship: USA; Family Status: Married (two children); Member of Religious Society of Friends (Quaker)

Penn State contact information: Dept. of Econ., 301 Kern Graduate Building, Penn State University, University Park, PA 16802; 814-865-0030; Fax: 814-865-0013; [rcm10@psu.edu](mailto:rcm10@psu.edu); <http://capcp.psu.edu/Faculty/marshall.html>

## EDUCATION

Princeton University; A.B. (Economics), 1973 - 1977

University of California, San Diego; Ph.D. (Economics), 1979 - 1983

## PROFESSIONAL EMPLOYMENT HISTORY

1977 to 1979 – Private Industry (Staff Accountant -- Arthur Andersen; Machinery Dealer -- JEM Machinery Co.)

1983 to 1988 – Assistant Professor of Economics, Duke University

1988 to 1995 – Associate Professor of Economics (tenure), Duke University

9/89 to 8/91 – Research Associate Professor of Statistics and Decision Sciences, Duke University (title awarded for participation in preparation of two proposals to the National Science Foundation for a Science and Technology Center in Decision Sciences)

1995 to present – Professor of Economics (tenure), Penn State University

1995 to 2015 – Head, Department of Economics, Penn State University (The vast majority of tasks that I have performed as Department Head are not described in this vitae. Details can be provided upon request.)

2003 to present – Partner, Bates White, LLC

2005 to present – co-Director of *Center for the Study of Auctions, Procurements, and Competition Policy*, Penn State University

2006 to 2014 – Liberal Arts Research Professor, Penn State University

2008 to present – co-Director of *Center for Research in International Financial and Energy Security*, Penn State University

2014 to present – Distinguished Professor, Penn State University

## BOOKS

[*The Economics of Collusion: Cartels and Bidding Rings*](http://mitpress.mit.edu/books/economics-collusion) (with Leslie M. Marx), The MIT Press, 2012, second printing February 2013

Book Reviews:

William E. Kovacic, Professor of Law at The George Washington University - [review](http://lawprofessors.typepad.com/antitrustprof_blog/2012/08/bill-kovacic-on-robert-c-marshall-leslie-m-marx-the-economics-of-collusion-cartels-and-bidding-rings.html) and Dr. Kovacic's review in *The Antitrust Source,* December 2012 - [review](http://www.americanbar.org/content/dam/aba/publishing/antitrust_source/dec12_kovacic_review_12_20f.authcheckdam.pdf)

Caron Beaton-Wells, Associate Professor at Melbourne Law School - [review](http://lawprofessors.typepad.com/antitrustprof_blog/2012/08/beaton-wells-on-the-economics-of-collusion-cartels-and-bidding-rings.html)

John J. Siegfried, Professor of Economics, of Vanderbilt University and University of Adelaide, review in *The Journal of Economic Literature*, Vol. L, December 2012 - review

Don Klawiter, Competition Law International, April 2013, Vol 9. No. 1 - [review](http://www.ibanet.org/Article/Detail.aspx?ArticleUid=ed5f5dd7-d86e-4a30-9356-50e1c7682898&7)

John Asker, Associate Professor of Economics, NYU Stern School of Business, review in

*Institute of Competition Law*, No. 2-2013 - [review](http://www.concurrences.com/Journal/Issues/No-2-2013/The-Economics-of-Collusion-Cartels-52089?ordre_suivant=num%20titre&onglet=15&lang=en)

# [Bert Foer,](http://www.antitrustinstitute.org/~antitrust/content/foers-notes-recent-antitrust-reading) President of the American Antitrust Institute, in Foer’s Notes on Recent Antitrust Reading, December 11, 2012

[Link for excerpt](http://www.europeanfinancialreview.com/?p=1505) from book published in the August/September edition of *The European Financial Review.*

**PAPERS** (published and forthcoming)

“A Micro-Econometric Analysis of Vacant Housing Units” (with R. F. Engle) in *The Urban Economy and Housing* (ed. Ronald Grieson), Lexington Press, 1983, *p.* 105-123.

“Occupancy Discounts in the Rental Housing Market” (with J. Luis Guasch), *Oxford Bulletin of Economics and Statistics* 4, 1983, *p.* 357-378.

“An Analysis of Vacancy Patterns in the Rental Housing Market” (with J. Luis Guasch), *Journal of Urban Economics*, 17, 1985, *p.* 208-229.

“[Age of Rental Housing Units and Vacancy Characteristics: A Filtering Explanation](http://www.sciencedirect.com/science/article/pii/0166046285900225)” (with J. Luis Guasch), *Regional Science and Urban Economics*, 15, 1985, *p.* 403-419.

“[Mobility Indices in Continuous Time Markov Chains](http://www.jstor.org/sici?sici=0012-9682%28198611%2954%3A6%3C1407%3AMIICTM%3E2.0.CO%3B2-V&origin=repec&cookieSet=1)” (with John Geweke and Gary A. Zarkin),

*Econometrica*, 54, 1986, *p.* 1407-1423.

“[Exact Inference for Continuous Time Markov Chain Models](http://www.jstor.org/stable/2297610)” (with John Geweke [principal author] and Gary A. Zarkin), *The Review of Economic Studies*, 53, 1986, *p.* 653-669.

“[A Theoretical and Empirical Analysis of the Length of Residency Discount in the Rental Housing](http://www.sciencedirect.com/science/article/pii/0094119087900295) [Market](http://www.sciencedirect.com/science/article/pii/0094119087900295)” (with J. Luis Guasch), *Journal of Urban Economics*, 22, 1987, *p.* 291-311.

“[The Effect of Job Tenure on Wage Offers](http://www.jstor.org/stable/2535023)” (with Gary A. Zarkin), *Journal of Labor Economics*, 5, 1987, *p.* 301-324.

“Price-Tenure Regressions with Censored Data” (with Gary A. Zarkin), *Oxford Bulletin of Economics and Statistics*, 49, 1987, *p.* 335-342.

“[Collusive Bidder Behavior at Single Object Second Price and English Auctions](http://www.jstor.org/stable/1831119)” (with Daniel A. Graham), *Journal of Political Economy*, 95, 1987, *p.* 1217-1239.

“[Differential Payments within a Bidder Coalition and the Shapley Value](http://www.jstor.org/stable/2006680)” (with Daniel A. Graham and Jean-Francois Richard), *American Economic Review*, 80, 1990, *p.* 493-510.

“The Private Attorney General Meets Public Contract Law: Procurement Oversight by Protest” (with Michael J. Meurer and Jean-Francois Richard), *Hofstra Law Review*, Fall 1991, *p.* 1-71. Reprinted in "IRS Computer Modernization and Procurement", Hearings before the Committee on Governmental Affairs United States Senate, June 25, 1991 and April 2, 1992, S. Hrg. 102-1104, *p.* 397-458.

“[Posterior Probabilities of the Independence Axiom with Non-Experimental Data](http://www.jstor.org/stable/1391801)” (with Jean- Francois Richard and Gary A. Zarkin), *Journal of Business and Economic Statistics*, 10, 1992, *p.* 31-

44. "Reply to 'Comment'", *p.* 48-49.

“Incentive-Based Procurement Oversight by Protest” (with Michael J. Meurer and Jean-Francois Richard) in *Incentives in Procurement Contracting* (ed. James Leitzel and Jean Tirole), 1993, Westview Press.

“[Litigation Settlement and Collusion](http://www.jstor.org/stable/2118433)” (with Michael J. Meurer and Jean-Francois Richard), *Quarterly Journal of Economics*, Vol. CIX, Issue 1, February 1994, *p.* 211-240.

“[Curbing Agency Problems in the Procurement Process by Protest Oversight](http://www.jstor.org/stable/2555832)” (with Michael J. Meurer and Jean-Francois Richard), *RAND Journal of Economics*, vol. 25, No. 2, Summer 1994, *p.* 297-318.

“[Numerical Analysis of Asymmetric First Price Auctions](http://www.sciencedirect.com/science/article/pii/S0899825684710451)” (with Michael J. Meurer, Jean-Francois Richard and Walter Stromquist), *Games and Economic Behavior,* 7, September 1994, *p.* 193-220.

“Multiple Litigants with a Public Good Remedy” (with Michael J. Meurer and Jean-Francois Richard), *Research in Law and Economics*, 16, 1994, *p.* 151-174.

“Lift-Lining” (with Daniel A. Graham and Jean-Francois Richard), *Advances in Applied Micro- Economics*, 6, 1996, *p.* 15-40.

“[Bidder Collusion at Forest Service Timber Auctions](http://www.jstor.org/stable/10.1086/262089)” (with Laura H. Baldwin and Jean-Francois Richard), *Journal of Political Economy*, vol. 105, No. 4, 1997, *p.* 657-699.

“[Strategic Information Generation and Transmissions: The Evolution of Institutions in DoD](http://www.nap.edu/openbook.php?record_id=9655&page=R1) [Operational Testing](http://www.nap.edu/openbook.php?record_id=9655&page=R1)” (with Eric Gaier), 1998, appeared in *Statistics, Testing, and Defense Acquisition: Background Papers* (ed. M. Cohen, J. Rolph and D. Steffey), National Academy Press, Washington, DC.

"The Economics of Auctions and Bidder Collusion," with Michael Meurer, in *Game Theory and Business Applications* 339, K. Chatterjee & W. Samuelson, eds., Kluwer (2001).

“[Pattern Bargaining](http://www.jstor.org/stable/3663609?&Search=yes&term=Bargaining&term=Pattern&term=Marshall&list=hide&searchUri=%2Faction%2FdoAdvancedSearch%3Fq0%3DPattern%2BBargaining%26f0%3Dti%26c0%3DAND%26q1%3DMarshall%26f1%3Dau%26c1%3DAND%26q2%3D%26f2%3Dall%26c2%3DAND%25)” (with Antonio Merlo), 2004, *International Economic Review*, vol. 45, No. 1. February, p 239-255.

“Bidder Collusion and Antitrust Law: Refining the Analysis of Price Fixing to Account for the Special Features of Auction Markets”, (with Michael J. Meurer), 2004, *Antitrust Law Journal*, vol. 72, Issue 1, p. 83-118.

"[Inefficiency of Collusion at English Auctions](http://ideas.repec.org/a/bpj/bejtec/vcontributions.5y2005i1n4.html)," 2005, (with Lopomo, Guiseppe and Leslie M. Marx);

*Contributions to Theoretical Economics*, vol. 5, No 1, Article 4.

"The Impact of Delivery Synergies on Bidding in the Georgia School Milk Market", 2006, (with Matthew E. Raiff, Jean-Francois Richard, and Steven P. Schulenberg), *Topics in Economic Analysis & Policy*, vol. 6: No. 1, Article 5.

“The Measurement of Economic Damages in Antitrust Civil Litigation”, 2006, (with Halbert L. White [primary author], and Pauline Kennedy), 2006, *Economics Committee Newsletter,* American Bar Association, Section of Antitrust Law, Spring, p. 17-22.

“Bidding Rings and the Design of Anti-Collusion Measures for Auctions and Procurements” (with William Kovacic, Leslie M. Marx, and Matthew E. Raiff), 2006, *Handbook of Procurement*, edited by N. Dimitri, G. Piga and G. Spagnolo, Cambridge University Press, p. 381-411.

“[Lessons for Competition Policy from the Vitamins Cartel](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=818744)”, 2007, (with William E. Kovacic, Leslie

M. Marx, and Matthew E. Raiff.), *The Political Economy of Antitrust*, edited by Vivek Ghosal and Johan Stennek, Elsevier, Chapter 6.

“Bidder Collusion”, 2007, (with Leslie M. Marx) *Journal of Economic Theory*, vol. 133, No 1, p. 374-402*.*

“Coordinated Effects in Merger Review: Quantifying the Payoffs from Collusion”, 2006, (with William E. Kovacic, Leslie M. Marx, Steven P. Schulenberg), *International Antitrust Law & Policy: Fordham Corporate Law 2006*, ed. B. Hawk. (Juris Publishing), Chapter 13.

“[Cartel Price Announcements: The Vitamins Industry](http://www.sciencedirect.com/science/article/pii/S0167718707000793)”, (with Leslie M. Marx and Matthew E. Raiff), 2008, *International Journal of Industrial Organization*. 26(3), 762-802. Winner of The Paul Geroski Best Paper Award 2009 for one of two best papers published in the journal in 2008.

“[The Vulnerability of Auctions to Bidder Collusion](http://www.bateswhite.com/media/pnc/5/media.235.pdf)” (with Leslie M. Marx) 2009, *Quarterly Journal of Economics,* vol. 124, no. 2, p. 883-910.

“[Cartels as Two-Stage Mechanisms: Implications for the Analysis of Dominant-Firm Conduct](http://www.ftc.gov/speeches/kovacic/2009cartelmechanisms.pdf)” (with Randal D. Heeb, William E. Kovacic, and Leslie M. Marx), 2009, *Chicago Journal of International Law,* vol. 10, 213, p. 213-231.

“[Quantitative Analysis of Coordinated Effects](http://www.jstor.org/stable/40843716)”, (with William E. Kovacic, Leslie M. Marx, and Steven P. Schulenberg), 2009, *Antitrust Law Journal*, vol. 76, no. 2. P. 397-430.

“Coordinated Effects in the 2010 Horizontal Merger Guidelines”, (with Wayne-Roy Gayle,

Leslie M. Marx, and Jean-Francois Richard), 2011, *Review of Industrial Organization*, vol. 39, Issue 1 (2011), p. 39-56.

“[Plus Factors and Agreement in Antitrust Law](http://www.bateswhite.com/media/pnc/8/media.498.pdf)”, (with William E. Kovacic, Leslie M. Marx, and Halbert L. White), 2011, *Michigan Law Review,* vol. 110, No. 3. P. 393-436. [Recipient of the tenth](http://www.businesswire.com/news/home/20120621006346/en/Professors%E2%80%99-Groundbreaking-Analysis-Circumstantial-Evidence-Antitrust-Conspiracies#.VSV1O2O5LaI) [annual Jerry S. Cohen Memorial Fund Writing Award,](http://www.businesswire.com/news/home/20120621006346/en/Professors%E2%80%99-Groundbreaking-Analysis-Circumstantial-Evidence-Antitrust-Conspiracies#.VSV1O2O5LaI) presented at the thirteenth annual conference of the American Antitrust Institute at the National Press Club on June 21, 2012.

“Tacit Collusion in Oligopoly”, (with Edward Green and Leslie M. Marx), in Roger D. Blair and D. Daniel Sokol eds., *Oxford Handbook on International Antitrust Economics*, Vol. 2, Oxford, UK: Oxford University Press, 464-497 (2015).

“The Economics of Auctions and Bidder Collusion” (with Leslie M. Marx and Michael J.

Meurer), in Kalyan Chatterjee and William F. Samuelson eds., 2014, p. 367-397. *Game Theory and Business Applications*, 2nd Edition, New York: Kluwer Academic Publishers.

“A Game Theoretic Model of Tenure”, (with Kalyan Chatterjee), in Kalyan Chatterjee and William F. Samuelson eds., 2014, p. 287-305. *Game Theory and Business Applications*, 2nd Edition, New York: Kluwer Academic Publishers.

“Antitrust Leniency with Multi-Product Colluders", (with principal authors, Leslie M. Marx and Claudio Mezzetti), *American Economic Journal: Microeconomics*, 7(3): 205-40 (2015).

“Section 1 Compliance from an Economic Perspective”, (with Leslie M. Marx), in *William E. Kovacic: An Antitrust Tribute Liber Amicorum – Volume II*, Institute of Competition Law (2014), reprinted in February 2016, *Concurrences Review* N° 1-2016, Art. N° 77332, <http://www.concurrences.com/Journal/Issues/No-1-2016/Section-1-Sherman-Act-Compliance>

“Buyer Resistance for Cartel versus Merger” (with Vikram Kumar, Leslie M. Marx and Lily Samkharadze), *International Journal of Industrial Organization* 39, 71-80 (2015). [Paper](https://faculty.fuqua.duke.edu/~marx/bio/papers/KumarMarshallMarxSamkharadzeIJIO2015.pdf)

“Participation in Multiple Cartels Through Time” (with Leslie M. Marx), http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=DAF/COMP/GF%282015

%293&docLanguage=En, OECD DAF/COMP/GF(2015)3

“[Unobserved collusion: warning signs and concerns: Keynote Address at the Antitrust Enforcement](https://academic.oup.com/antitrust/article/5/3/329/4210452?searchresult=1) [Symposium”,](https://academic.oup.com/antitrust/article/5/3/329/4210452?searchresult=1) *J*o*urnal of Antitrust Enforcement*, Volume 5, Issue 3, 1 October 2017, Pages 329–340, <https://doi.org/10.1093/jaenfo/jnx017>

“Serial Collusion by Multi-Product Firms”, (with William E. Kovacic and Michael J. Meurer),

*Journal of Antitrust Enforcement*, Volume 6, Issue 3, 1 October 2018, Pages 296–354. (lead article)

“What Next? Cartel Strategy after Getting Caught” (Leslie M. Marx and Claudio Mezzetti), 2020, in *Competition Law and Economics: Developments, Policies and Enforcement Trends in the US and Korea*, Edited by Jay Pil Choi, Chapter 7, pp. 125-145.

## NOTES

“On High and Low R2 Contributions” (with David F. Hendry), *Oxford Bulletin of Economics and Statistics*, 3, 1983, *p.* 313-316.

“The Effect of Size on Prices” (with J. Luis Guasch), *Economic Letters*, 13, 1983, *p.* 309-317.

“Risk, Discounts, and the Pricing of Indivisible Goods” (with J. Luis Guasch), *Economic Letters*, 17, 1985, *p.* 43-46.

[“Phantom Bidding Against Heterogeneous Bidders](http://www.econ.psu.edu/people/biographies/marshallpaper/phantombidding.pdf)” (with Daniel A. Graham and Jean-Francois Richard), *Economic Letters*, 32, 1990, *p.* 13-17.

## UNPUBLISHED WORKING PAPERS

“Numerical Analysis of the Impact of Reserve Prices at First Price Auctions with Asymmetric Bidders” (with Steven Schulenberg), 1997.

“Monopolization Conduct by Cartels” (with Leslie M. Marx and Lily Samkharadze), 2010, revised 2019.

“[Bidder Collusion: Accounting for All Feasible Bidders](https://capcp.la.psu.edu/papers/BidderCollusionAccountingforAllFeasibleBidders.pdf)”, (with Jean-Francois Richard and Chaohai Shen), September 2019. (See also separate [data processing appendix](https://capcp.la.psu.edu/working-papers/DataProcerssingAppendixBidderCollusion.pdf)); Paper has been substantially rewritten and has a new title, “A Simulation-Based Test for Bidder Collusion”.

**GIFTS, GRANTS, AWARDS, AND FELLOWSHIPS** (listed chronologically)

* University of California Regents Fellowship, 1979-1980
* Shell Graduate Aid Fellowship, 1981-1982
* University of California Doctoral Dissertation Fellowship, 1982-1983
* National Science Foundation, Grant #: SES-8509693, 9/85-8/87; Title: Collusive Behavior at Auctions
* National Science Foundation, Grant #: SES-8708615, 11/87-11/89; Title: Sellers and Heterogeneous Bidders at Auctions: Non-Cooperative and Collusive Strategic Behavior
* Pew Charitable Trusts: 12/88-12/90; Title: Procurement of Defense Systems and the Incentives to Innovate
* Ford Foundation, 10/89-10/91; Title: Supplier Influence in Defense Procurement: An Economic Analysis
* National Science Foundation, Grant #: SES-9012202, 8/90-7/92; Title: Monte Carlo Simulations - Applications in Econometrics and Economic Modeling
* Pew Charitable Trusts, 1/91-6/93; Title: Decentralized Oversight of Procurement and Pricing
* The Henry Luce Foundation, 1/97-12/2001; Title: Evolutionary Models of Economic and Social Behavior.
* IBM SUR Grant, 1999, (IBM awarded the PSU Economics Department approximately

$200k in its most advanced computer hardware.)

* Bates White, LLC, 2003 to present, (gift to support the graduate program and undergraduate research)
* Human Capital Foundation, 2007 to present, (gift to *Center for the Study of Auctions, Procurements and Competition Policy*)
* Human Capital Foundation, 2008 to present, (gift to *Center for Research in International Financial and Energy Security*)
* Service to the College Award, Penn State University, College of the Liberal Arts, 2012

## TEACHING EXPERIENCE

* **Award Nominations**

1988 Nominee for the Alumni Undergraduate Teaching Award at Duke University (24 nominees in total).

1990 Nominee for the Alumni Undergraduate Teaching Award at Duke University (29 nominees in total - nomination was put forward by nine graduating seniors, each of whom took the course as a junior).

## Other Distinctions

By invitation of Major Speakers Committee at Duke University presented a "Legacy Lecture" on January 24, 1994. The instructions for the speaker are to address Duke undergraduates on any topic they wish, but to treat the lecture as if it were the last they would ever offer in their life.

## Courses Taught and Ph.D. Supervision

* **Undergraduate - Duke University unless otherwise noted**

Microeconomic Principles (highest rated instructor in Department of Economics for all undergraduate courses in Fall '92)

Industrial Organization (highest rated instructor in Department of Economics for all undergraduate courses in Spring '89 and Spring '90, second highest in Fall '87)

Econometrics (highest rated instructor in Department of Economics for all undergraduate courses in Spring '85)

Introductory Economic Statistics

Economics of Organization and Management (third highest rated instructor in Department of Economics for all undergraduate courses in Fall '93)

Economics of Collusion (Penn State University, Spring 2004, Fall 2007, Fall 2008 --highest rated “tier 2” 400-level course, Fall 2016 (course 6.71/7; instructor 6.86/7), Spring 2017

(course 6.67/7, instructor 7/7), Fall 2018 (course 6.33/7, instructor 6.33/7); course approved by Faculty Senate as Economics 449W, Fall 2011)

## Graduate Ph.D. - Duke University unless otherwise noted

Econometrics (core and topics) Microeconomics (core and topics)

Industrial Organization (Department of Economics at Duke University, University of Minnesota, and Penn State)

## Graduate MBA

Industrial Structure and Competitive Strategy (Northwestern’s Kellogg Graduate School of Business)

## Ph.D. Supervision (Chair or co-Chair of Committee) and Initial Placements

Laura H. Baldwin, 1994, RAND

Brett Katzman, 1996, University of Miami (Economics Department)

Eric Gaier, 1997, Logistics Management Institute, now at Bates White LLC

Matthew Raiff, 1997, visiting position at Penn State University (Economics Department) Junfeng Qi, 1997, one year position at Research Triangle Institute

Steven Schulenberg, 2003, Bates White, LLC

Lily Samkharadze, 2012, 3-year postdoc at Mannheim Vikram Kumar, 2013, Compass Lexicon (London)

# Chaohai Shen, 2017, East China Normal University, Shanghai, China

## OTHER PROFESSIONAL ACTIVITIES

* **Editorial**

Journal of Antitrust Enforcement, Editorial Board 2013-2015, Advisory Board 2015-present

## Congressional Testimony and Legislative Impact

June 25, 1991 - Before the Senate Committee on Governmental Affairs regarding the Internal Revenue Service's Computer System Modernization Procurement.

My testimony addressed general procurement issues that had been raised by the Department of the Treasury regarding the bid protest mechanism at the General Services Administration

Board of Contract Appeals. [“IRS Computer Modernization and Procurement”, Hearings before the Committee on Governmental Affairs United States Senate, June 25, 1991 and April 2, 1992, S. Hrg. 102-1104.]

Advised the House Government Operations Committee on legislative reform of the bid protest process. House Resolution 3161 contained elements of this advice, including the review of all protest settlements.

## National Service

Testified before the Acquisition Advisory Panel, October 27, 2005, regarding aspects of the economics of federal procurements. Testimony is cited in the **Report of the Acquisition Advisory Panel** to the Office of Federal Procurement Policy and the United States Congress, January 2007 (<http://acquisition.gov/comp/aap/24102_GSA.pdf>).

Member of the “Panel on Statistical Methods for Testing and Evaluation Defense Systems” within the *Committee on National Statistics* of the *National Academy of Sciences* - three year term beginning 1/25/94. The study report is *Statistics, Testing and Defense Acquisition*, 1998 (ed. M. Cohen, J. Rolph and D. Steffey), National Academy Press, Washington, DC.

Member of “Panel to Study the Research Program of the Economic Research Service” within the *Committee on National Statistics* of the *National Academy of Sciences* - one year term beginning 9/1/97. The Study Report is [*Sowing Seeds of Change: Informing Public*](http://www.nap.edu/catalog.php?record_id=6320)[*Policy in the Economic Research Service of USDA*](http://www.nap.edu/catalog.php?record_id=6320)*,* 1999, (ed. John F. Geweke, James T. Bonnen, Andrew A. White, and Jeffrey J. Koshel), National Academy Press, Washington, DC.

Member of “Comptroller General Advisory Board at the U.S. Government Accountability Office” as of December 2017

## Professional Service

External review of Department of Economics, University of Arizona, 1998 External review of Department of Economics, University of North Carolina, 1999 External review of Department of Economics, University of Illinois, 2008

## Department/University Service - Duke University (notable subset)

Initiated and ran recruitment of the following senior faculty to Duke University - Mark Machina (84/85 unsuccessful), Jean-Francois Richard (85/86, successful), David Hendry (85/86, visitor for one month in each of five consecutive years), and Herve Moulin (88/89, successful).

Placement Coordinator for Graduate Students, 1991-1995

## Penn State Service since end of term as Department Head (July 1, 2015)

Member of LA Dean Search Committee (2017/18) Chair of AD-14 review of Sociology Head (2017)

Dean’s Leadership Advisory Group (2020)

## Department/University Service - Penn State University (senior recruitment only)

Recruitment 1995/96 - Eric Ghysels (successful), Herman Bierens (successful), John Geweke (unsuccessful), Mike Keane (unsuccessful), Rao Aiyagari (unsuccessful)

Recruitment 1996-97 - Neil Wallace (successful), In-Koo Cho (unsuccessful), Roberto Serrano (unsuccessful), Rodolfo Manuelli (unsuccessful)

Recruitment 1997/98 - James Jordan (successful), Tomas Sjostrom (successful), Arthur Lewbel (unsuccessful), James Tybout (unsuccessful), Antonio Merlo (unsuccessful)

Recruitment 1998/99 – James Tybout (successful), Larry Ausubel (unsuccessful), Wilbert Van der Klaauw (unsuccessful)

Recruitment 1999/2000 – B. Ravikumar (successful), Chris Flinn (unsuccessful), Lung-fei Lee (unsuccessful), Arie Kapteyn (unsuccessful), Rafael Rob (unsuccessful)

Recruitment 2000/2001 – Hal White (unsuccessful), Yongmaio Hong (unsuccessful), Paul Rudd (unsuccessful), John Rust (unsuccessful), Deborah Minehart (unsuccessful), Rachel Kranton (unsuccessful)

Recruitment 2001/2002 – on sabbatical leave; (Joris Pinkse was successfully recruited by Jim Jordan while serving as Acting Head)

Recruitment 2002/2003 – Quang Vuong (successful), Isabelle Perrigne (successful), Ed Green (successful), Ruilin Zhou (successful), Pat Bajari (unsuccessful)

Recruitment 2003/2004 – John Kennan (unsuccessful), Motty Perry (unsuccessful), Massimo Morelli (unsuccessful)

Recruitment 2004/2005 – Mike Keane (unsuccessful), Andres Rodriguez-Clare (successful) Recruitment 2005/6 and 2006/7 – on formal study leave

Recruitment 2007/8 – Stephen Yeaple (successful), John Ham (unsuccessful), David McAdams (unsuccessful)

Recruitment 2008/9 – Jonathan Eaton (successful), Motty Perry (unsuccessful) Recruitment 2009/10 – on leave as of 1/1/10

Recruitment 2010/11 – on leave

Recruitment 2011/12 – Russell Cooper (successful), Geert Ridder (unsuccessful), Glenn Ellison (unsuccessful), Sara Ellison (unsuccessful), Taisuke Otsu (unsuccessful)

Recruitment 2012/13 – Ron Gallant (successful), Patrik Guggenberger (successful), Marc Henry (successful), Andres Aradillas-Lopez (successful), Matias Cattaneo (unsuccessful), Allesandro Gavazza (unsuccessful), Kaivan Munshi (partially successful – accepted visiting senior scholar appointment but not full professor appointment), Jesus Fernandez-Villaverde (unsuccessful), Shakeeb Khan (unsuccessful)

Recruitment 2013/14 – Shouyong Shi (successful), Ron Siegel (successful), Joe Kaboski (unsuccessful), Fuhito Kojima (unsuccessful), Ben Lester (unsuccessful), Amit Gandhi (unsuccessful), Aprajit Mahajan (unsuccessful)

Recruitment 2014/15 – Jonathan Eaton (successful), Nageeb Ali (successful), Michael Jansson (unsuccessful)

## Visiting Positions

1983 - Post-doctoral Researcher, Nuffield College, Oxford University (five months - hosted by David F. Hendry)

1986 - Visiting Researcher, CORE (one month - hosted by Jean-Francois Richard)

1986 - Visiting Scholar, Federal Reserve Board of Governors (one week - hosted by Neil Ericsson)

1993 - Visiting Associate Professor, University of Pittsburgh Department of Economics (one month - hosted by Jean-Francois Richard and Alvin Roth)

1993 - Visiting Associate Professor, University of Minnesota Department of Economics (spring quarter)

1994 - Visiting Associate Professor, Northwestern University Kellogg Graduate School of Business - MEDS Department (spring quarter)

1995 - Visiting Professor, Institute for Empirical Macroeconomics, Minneapolis Federal Reserve (October)

## Conferences Organized:

Organized and ran a conference at the American Enterprise Institute in Washington, DC, entitled “Procurement Oversight”. This one day conference (July 23, 1990) was attended by over 100 people including academics, federal procurement officials, and key policy figures. The central focus of the conference was on the protest process at the General Services Administration Board of Contract Appeals.

Organized and ran a conference at Penn State University (March 25-28, 1999) entitled “Evolutionary Models of Economic and Social Behavior”. Presenters at this three day conference included anthropologists, biologists, economists, and zoologists.

Organized and ran a conference at Penn State University (April 3-6, 2008) concerning “Auctions, Procurements, and Empirical Industrial Organization”. There were 14 papers presented. Nobel laureate Eric Maskin was honored at the opening dinner. There was a roundtable on Russian oil and gas auctions. Approximately 60 leading researchers in the field attended. The conference was hosted by the PSU Center for the Study of Auctions, Procurements, and Competition Policy along with its partner institution, the Institute for Financial Studies.

Organized and ran a conference at Penn State University (March 26-29, 2009) concerning “Auctions, Procurements, and Empirical Industrial Organization”. Several papers were presented. Nobel laureate Robert F. Engle was honored at the opening dinner while Nobel Laureate Eric Maskin closed the conference. Approximately 60 leading researchers in the field attended. The conference was hosted by the PSU Center for the Study of Auctions, Procurements, and Competition Policy along with its partner institution, the Institute for Financial Studies.

Organized and ran (partial involvement due to leave) a conference at Penn State University (April 29 – May 2, 2010) concerning “Auctions, Procurements, and Empirical Industrial Organization”. Several papers were presented. Nobel laureate Robert F. Engle presented the Saturday evening dinner address. Approximately 60 leading researchers in the field attended. The conference was hosted by the PSU Center for the Study of Auctions, Procurements, and Competition Policy along with its partner institution, the Institute for Financial Studies.

## Consulting

World Bank; 1992-1994 (small projects)

General game theory instruction for a consortium of telecommunication bidders interested in bidding for FCC spectrum (small amount; directly related to ongoing research). 1995-1996.

Expert witness, litigation regarding an auction of a professional sports franchise, working on behalf of the Department of Justice, Tax Division. 1997-1998.

Federal Trade Commission – Independent Consultant to Bureau of Economics. Fall 2001.

Bates, White, Ballentine, LLC – consulting expert and testifying expert for vitamins anti- trust case. 12/1999-2/2003.

Bates, White, LLC – partner. 2/2003-present

## LEISURE ACTIVITIES

French Horn, Golf, Carpentry