

Mahmoud Amin El-Gamal

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Personal:

Date and place of birth: January 1, 1963, Cairo, Egypt
Family Status: Married, with two sons
Citizenship: U.S.A.

Education:

Ph.D (Economics) June 1988, Northwestern University
M.S. (Statistics) June 1985, Stanford University
M.A. (Economics) February 1985, The American University in Cairo
B.A. (Econ./Comp. Sc.) February 1983, The American University in Cairo

Employment:

Rice University:

(01/1998 – present) Professor of Economics and Statistics
(01/1998 – present) Chair of Islamic Economics, Finance & Management
(01/2010 – 12/2011) Will Clayton Fellow in International Economics,
James A. Baker III Institute for Public Policy
(07/2008 – 06/2011) Chair, Department of Economics
(*Coordinated curriculum reform, external review & strategic plan*)

The American University in Cairo:

(07/2014 – 06/2015) Provost and Vice President for Academic Affairs
(*Began partial transition to a Resource Center Management (RCM) Model*)

U.S. Department of Treasury:

(05 – 12/2004) Scholar-in-Residence on Islamic Finance
(*Educated governmental, legislative, and regulatory staff on Islamic finance*)

University of Wisconsin at Madison:

(07/1996 – 06/1998) Associate Professor of Economics (with tenure)

International Monetary Fund:

(09/1995 – 06/1996) Economist, Middle East Department
(*Desk Economist for West Bank and Gaza*)

California Institute of Technology:

(07/1989 – 06/1996) Assistant Professor of Economics

University of Rochester:

(07/1988 – 06/1989) Assistant Professor of Economics

Editorial and professional activities:

- Member, Middle East Advisory Group, International Monetary Fund, 2014 – 6
- Research Fellow, *Economic Research Forum* (ERF), Cairo, Egypt, 1996 –
 - Member of ERF Advisory Committee 2011–3; Scientific Committee 2013–6
 - Chairman of the fellows 2011–2
- Scientific Advisory Council, *Center for Research on Economies of the Mediterranean* (CREMed), 2011–2
- Associate Director, Chao Center for Asian Studies, Rice University, 2009–10
- Baker Institute Rice Scholar, Baker Institute for Public Policy, 2003 –9, 2012–
- Editorial Board Member, *Review of Middle-East Economics and Finance*, 2007 –
- Testimony before U.S. Senate Committee on Banking, Housing, and Urban Affairs, July 2005: <https://www.banking.senate.gov/imo/media/doc/gamal.pdf>
- Director: Behavioral Research Laboratory, Rice University, 2003 – 2004
- Associate Editor, *Macroeconomic Dynamics*, 1996 – 2002
- NSF instrumentation panel member, 1998
- Executive Committee Member, Economic Science Association, 1995–1997
- Associate Editor, *Journal of Economic Dynamics and Control*, 1994 – 2000
- Referee responsibilities included: *American Economic Review*, *American Political Science Review*, Cambridge University Press, *Econometrica*, *Econometric Reviews*, *Econometric Theory*, *Economic Theory*, *Feminist Economics*, *Games and Economic Behavior*, *Journal of the American Statistical Association*, *Journal of Applied Econometrics*, *Journal of Econometrics*, *Journal of Economic Behavior and Organization*, *Journal of Economic Dynamics and Control*, *Journal of Economic Literature*, *Journal of Economic Theory*, National Science Foundation, *Review of Economics and Statistics*, and *World Politics*.

University Service (select duties at Rice):

- Faculty Senate
 - Chair, working group on promotions and tenure
 - Member, working group on research and scholarship
 - Convener of Appeals and Grievances
- Provost search committee
- Promotions and tenure committee
- Numerous departmental and faculty search committees

Research grants:

- NSF Research Grant #SBR9223701 “Imperfect Play and Incomplete Information in Multi-Stage Games: Theory and Experiments” (with Richard McKelvey and Thomas Palfrey) March 1993 – Feb. 1995
- NSF Research Grant #SBR9320497 “Sophisticated Data-Mining in Individual Choice and Market Experiments” (with David Grether) June 1994 – May 1999
- NSF instrumentation grant for Behavioral Research Laboratory at Rice University (with Rick Wilson and Daniel Osherson), July 1999
- Graduate school research grant for 1997/1998, University of Wisconsin – Madison
- Research grant to Rice University for translation of volumes 5 & 6 of Dr. Wahbah Al-Zuhayli’s *Al-Fiqh Al-Islāmī wa Adillatuh* (Islamic Jurisprudence and Its Proofs), 1999-2001
- Research grant from Kelly Day Endowment at the Baker Institute for Public Policy for the study of microfinance models for the Muslim poor, 2009-11

Publications – Books

- *Oil, Dollars, Debt, and Crises: The Global Curse of Black Gold* (with Amy M. Jaffe), NY: Cambridge University Press, 2010 (ISBN: 9780521720700).
 - Chinese Translation, Petroleum Industry Press, 2011 (ISBN: 9787502182335).
- *Islamic Finance: Law, Economics and Practice*, NY: Cambridge University Press, 2006 (ISBN: 9780521741262).
 - French Translation: *Finance Islamique: Aspects Légaux, Économiques, et Pratiques* (Jacqueline Haverals, tr.), Brussels: Groupe De Boeck s.a., 2010 (ISBN: 9782804161880).
- *Financial Transactions in Islamic Jurisprudence*, – translation of Dr. Wahbah Al-Zuhayli’s *Al-Fiqh Al-Islāmī wa Adillatuh*, volumes 5 and 6 – Volume 1 (725 pages), Volume 2 (784 pages), Damascus: Dar Al-Fikr, 2003 (ISBN: 1592390722).

Publications – Journal Articles

- “Rising Inequality and De-Democratization,” (with Hany Abdel-Latif), *Middle East Development Journal*, in press, 2020. <https://doi.org/10.1080/17938120.2020.1720333>
- “Financial Liquidity, Geopolitics, and Oil Prices,” (with Hany Abdel-Latif), *Energy Economics*, in press, 2019. <https://doi.org/10.1016/j.eneco.2019.104482>
- “Antecedents of War: The Geopolitics of Low Oil Prices and Decelerating Financial Liquidity,” (with Hany Abdel-Latif), *Applied Economics Letters*, 2018. <http://dx.doi.org/10.1080/13504851.2018.1494802>

- “The Coupled Cycles of Geopolitics and Oil Prices,” (with Amy Jaffe), *Economics of Energy and Environmental Policy* 7(2), 2018. <http://dx.doi.org/10.5547/2160-5890.7.2.melg>
- “Bank-Insured RoSCA for Microfinance: Experimental Evidence in Poor Egyptian Villages” (with Mohamed El-Komi, Dean Karlan, and Adam Osman), *Journal of Economic Behavior and Organization*, 103 (Supplement), July 2014. <https://doi.org/10.1016/j.jebo.2014.02.025>
- “Nonstationarity and Stochastic Stability of Relative Income Clubs” (with Deockhyun Ryu), *Review of Income and Wealth* 59(4), 2013, pp. 756-775. <https://doi.org/10.1111/j.1475-4991.2012.00521.x>
- “Risk Loving after the Storm: A Bayesian-Network Study of Hurricane-Katrina Evacuees,” (with Catherine Eckel and Rick Wilson), *Journal of Economic Behavior and Organization* 69(2), 2009, pp. 110-124. <https://doi.org/10.1016/j.jebo.2007.08.012>
- “A Muslim’s Perspective on the Financial Crisis,” *The American Economist* LIII, 2009. <https://doi.org/10.1177/056943450905300105>
- “Subpriming The Pump,” (with Amy Myers Jaffe), *Foreign Policy*, October 2009.
- “Incoherence of Contract-Based Islamic Financial Jurisprudence in the Age of Financial Engineering,” *Wisconsin International Law Journal* 25(4), 2008, pp 605–24.
- “Contemporary Islamic Law and Finance: The Trade-Off Between Brand Name Distinctiveness and Convergence,” *Berkeley Journal of Middle Eastern and Islamic Law* 1(1), Spring 2008.
- “Multivariate Estimation for Operational Risk with Judicious Use of Extreme Value Theory” (with Hulusi Inanoglu and Mitch Stengel), *Journal of Operational Risk* 2(1), 2007, pp. 21-54.
- “Mutuality as an Antidote to Rent-Seeking Shari’a Arbitrage in Islamic Finance,” *Thunderbird International Business Review* 49(2), 2007, pp. 187-202.
- “Short-Memory and the PPP-Hypothesis” (with Deockhyun Ryu), *Journal of Economic Dynamics and Control* 30(3), 2006, pp. 361-91.
- “Inefficiency and Heterogeneity in Turkish Banking: 1990-2000” (with Hulusi Inanoglu), *Journal of Applied Econometrics* 20, 2005, pp. 641-664.
- “Interest and the Paradox of Contemporary Islamic Law and Finance,” *Fordham International Law Journal* 27(1), December 2003, pp. 108-149.
- “A Consistent Nonparametric Test of Stationary Ergodicity for Time Series with Applications,” (with Ian Domowitz), *Journal of Econometrics* 102, 2001, 365-98.
- “A Bayesian Interpretation of Multiple Point Estimates,” *Econometric Reviews* 20(2), 2001, pp. 235-245.

- “An Economic Explication of the Prohibition of *Gharar* in Classical Islamic Jurisprudence,” *Islamic Economic Studies* 8(2), April 2001, pp. 29-58.
 - Reprinted as Chapter 3 of Iqbal, M. (ed.) *Islamic Banking and Finance: Current Developments in Theory and Practice*, Markfield, Leicester, UK: The Islamic Foundation, 2002, pp. 49-88.
- “Monetary Policy in the Arab World: An Evolving Destination, A Challenging Voyage” (with Mohamed El-Erian), *Arab Banker* XV(3), 2000.
- “Involving Islamic Banks in Central Bank Open Market Operations,” *Thunderbird International Business Review* (formerly *International Executive Journal*) 41(4,5), 1999, pp. 501-521.
- “The Survival of Islamic Banking: A Micro-Evolutionary Perspective,” *Islamic Economic Studies* 5(1,2), 1998, pp. 1-22.
 - “...” Reprinted in *Proceedings of the Second Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 1999, pp. 63-77.
- “Economical Experiments: Bayesian Efficient Experimental Design,” (with Thomas Palfrey), *International Journal of Game Theory*, 1996, no. 25, pp. 495-517.
- “Are People Bayesian? Uncovering Behavioral Strategies,” (with David Grether), *Journal of the American Statistical Association* (Applications and Case Studies) 90(432), December 1995, pp. 1137-1145.
- “Vertigo: Comparing Structural Models of Imperfect Behavior in Experimental Games” (with Thomas Palfrey), *Games and Economic Behavior* 8(2), 1995, pp. 322-348.
- “A Dynamic Migration Model with Uncertainty,” *Journal of Economic Dynamics and Control* 18(3,4), 1994, pp. 511-538.
- “Learning in Experimental Games,” (with Richard McKelvey and Thomas Palfrey), *Economic Theory*, vol. 4, no. 6, 1994, pp. 901-922.
- “A Consistent Test of Stationary-Ergodicity,” (with Ian Domowitz), *Econometric Theory* 9(4), 1993, pp. 589-601.
- “The Extraction of Information from Multiple Point Estimates,” *Nonparametric Statistics* 2, 1993, pp. 369-378.
- “Computational Issues in the Statistical Design and Analysis of Experimental Games,” (with Richard McKelvey and Thomas Palfrey), *The International Journal of Supercomputer Applications* 7(3), 1993, pp. 189-200.
- “A Bayesian Sequential Experimental Study of Learning in Games” (with Richard McKelvey and Thomas Palfrey), *Journal of the American Statistical Association* 88(422), (Applications and Case Studies), 1993, pp. 428-435.

- “Bayesian Economists ... Bayesian Agents: An Alternative Approach to Optimal Learning” (with Rangarajan Sundaram), *Journal of Economic Dynamics and Control* 17, 1993, pp. 355-383.
- “Fictitious Play: A Statistical Study of Multiple Economic Experiments,” (with Richard Boylan), *Games and Economic Behavior* 5(2), 1993, 205-222.
- “NonParametric Estimation of Deterministically Chaotic Systems,” *Economic Theory*, 1991, pp.147-167.
 - “...,” Reprinted, *Chaos theory in economics: Methods, models and evidence*, Elgar Reference Collection. International Library of Critical Writings in Economics, no. 66., Cheltenham, U.K.: Elgar; distributed by Ashgate, Brookfield, Vt., 1996.

Publications – Book Chapters and Papers in Edited Volumes

- “Islamic Finance’ after State-Sponsored Capitalist-Islamism,” in Wim Decock and Vincent Sagaert (eds.), *Islamic Finance: Between Religious Norms and Legal Practice*, Cambridge: Intersentia (in press), pp. 109–124.
- “Nothing New Under the Sun: Tawarruq, Murabaha, and Contemporary Islamic Finance,” in Frank E. Vogel and S Nazim Ali (eds.) *Contemporary Perspectives on Tawarruq*, Edward Elgar, forthcoming.
- “Mutuality, Reciprocity, and Justice within the Context of a Unified Theory of Riba and Gharar,” in Ali, Nazim and S. Nisar (eds.) *Takaful and Islamic Cooperative Finance*, Edward Elgar, 2016, pp. 48–61.
- “Islamic Finance,” in Steven Durlauf and Larry Blume (eds.) *New Palgrave Dictionary of Economics Online*, Palgrave MacMillan, 28 March 2009, at https://doi.org/10.1057/978-1-349-95121-5_2919-1.
- “Introduction to Islamic Finance,” in Frank J. Fabozzi (ed.) *Handbook of Finance* Volume I, NY: Wiley, 2008.
- “Islamic Securitization: Advances and Peculiarities,” in J.J. de Vries Robbé and P. Ali (eds.) *Innovations in Securitization Yearbook 2007*, NY: Kluwer, 2007, pp. 213–227.
- “Mutualization of Islamic Banks,” in M. Kabir Hassan and Mervyn K. Lewis (eds.) *Handbook of Islamic Banking*, Edward Elgar Pub, 2007.
- “A Simple *Fiqh*-and-Economics Rationale for Mutualization in Islamic Financial Intermediation”, in N. Ali (ed.), *Integrating Islamic Finance into the Mainstream: Regulation, Standardization, and Transparency*, Cambridge: Islamic Fiance Project, Islamic Legal Studies Program, Harvard University, 2007.
- “Limits and Dangers of Shari‘a Arbitrage,” *Islamic Finance: Current Legal and Regulatory Issues*, Cambridge: Islamic Fiance Project, Islamic Legal Studies Program, Harvard University, 2005, pp. 117-131.

- “An Attempt to Understand the Economic Wisdom (*Hikmah*) in the Prohibition of Riba,” in A. Thomas (ed.) *Interest in Islamic Economics: Understanding Riba*, New York: Routledge, 2005.
- “Islamic Banking in Turkey: Boon or Bane for the Financial Sector” (with Hulusi Inanoglu), *Proceedings of the Fifth Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle East Studies, Harvard University, 2004, pp. 7-20.
- “Prospects for Arab Monetary Policy in the International Financial System” (with Mohamed El-Erian), *Monetary Policy and Exchange Rate Policy: Options for the Middle East*, E. Cardoso and A. Galal (eds.), Cairo: ECES, 2002, pp. 269-295.
- “Beyond Credit: A Taxonomy of SMEs and Financing Methods for Arab Countries,” (with Nihal El-Megharbel and Hulusi Inanoglu), in Fawzy, S. (ed.) *Globalization and Firm Competitiveness in the Middle East and North African Region*, DC: World Bank, 2002, in pp. 208-232.
- “The Economics of 21st-Century Islamic Jurisprudence,” *Proceedings of the Fourth Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 2002, pp. 7-12.
- “An Introduction to Modern Islamic Economics and Finance,” *Proceedings of the Fourth Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 2002, pp. 145-150.
- “An Economic Explication of the Prohibition of *Ribā* in classical Islamic Jurisprudence,” *Proceedings of the Third Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 2000, pp. 31-44.
- “Introduction” to the Islamic Finance section of *Proceedings of the Third Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 2000, pp. 159-162.
- “Changing Decision Rules: Uncovering Behavioral Strategies Using Estimation Classification (EC),” (with David Grether), in M. Machina and B. Munier (eds.), *Beliefs, Interactions and Preferences in Decision Making*, New York: Kluwer, 1999.
- “A Monte Carlo Study of EC-Estimation in Panel Data Models with Limited Dependent Variables and Heterogeneity,” (with David Grether), in C. Hsiao, LF. Lee, K. Lahiri and M.H. Pesaran (eds.) *Analysis of Panels and Limited Dependent Variable Models*, Cambridge: Cambridge University Press, 1999, pp. 114-135.
- “Introduction” to the Islamic Economics section of *Proceedings of the Second Harvard University Forum on Islamic Finance*, Cambridge: Center for Middle Eastern Studies, Harvard University, 1999, pp. 3-6.
- “Uncovering Heterogeneity in Behavioral Strategies,” (with David Grether), in G. Ritschard, F. Berchtold, F. Duc, and D. Zighed (eds.), *Apprentissage des Principes Naturels aux Modeles Artificiels*, Paris: Hermes, 1998, pp. 219-230.

- “Attracting Foreign Direct Investment to Arab Countries: Getting the Basics Right” (with M. El-Erian), presented at “Incentives to Foreign Direct Investment” workshop organized by IAIGC, UCTAD, and IDB, Hammamet, Tunisia, March 1997, ERF working paper #9718.
- “Investment and Growth,” (with A. Bisat, M. El-Erian, and F. Mongelli), in *Building on Progress: Reform and Growth in the Middle East and North Africa*, Washington DC: International Monetary Fund, 1996, pp.7-21.
- “Is Your Model Chaotic: A Consistent Statistical Test,” (with Ian Domowitz). In *Proceedings of the First World Congress of Nonlinear Analysts*, ed. V. Lakshmikantham, Walter de Gruyter, N.Y., 1996, pp. 2861-2871.
- “The Role of Priors in Active Bayesian Learning in the Sequential Statistical Decision Framework”. In *Maximum Entropy and Bayesian Methods*, eds. W. Grandy and L. Schick, Kluwer Academic Publishers, Dordrecht, 1991.

Publications – Book Reviews

- Review of: *Jihad & Co.: Black Markets and Islamist Power*, by Aisha Ahmad, *Reading Religion*, Feb. 26, 2018. <http://readingreligion.org/books/jihad-co>
- Review of: *What Is Wrong with Islamic Economics? Analysing the Present State and Future Agenda*, by M. Akram Khan, *Journal of Economic Literature*, 51(4), 2013.
- Review of: *Islam and Mammon: The Economic Predicament of Islamism*, by Timur Kuran, *Review of Islamic Economics*, 9(1), 2005, pp. 89-92.
- Review of: *Rationality and Dynamic Choice: Foundational Explorations*, by Edward F. McClennen, *Economics and Philosophy* 9(1), 1993, pp.165-168.
- Review of: *Topics in Advanced Econometrics: Probability Foundations*, by Phoebus Dhrymes, *Econometric Theory* 7(1), 1991, pp.125-131.

Patents

- “Systems, Methods and Computer Program Products for Adaptive Transaction Cost Estimation,” (with Milan Borkovec, Ian Domowitz, Hans Heidle, Aaron Schweiger, and Konstantin Tyurin), US Patent Application No: 2012/0179,597; Serial Number 13/423,553, published: July 12, 2012.

Recent Working Papers

- “White Elephants on Quicksand: Low Oil Prices and High Geopolitical Risk,” (with Hany Abdel-Latif), mimeograph, January 2020. At: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3517455
- “The Ephemeral Brent Geopolitical Risk Premium,” (with Hany Abdel-Latif and Amy Jaffe), mimeograph, Rice University, December 2019, presented at IAEE/AEA, San Diego, CA, Jan 4, 2020. At: <https://ssrn.com/abstract=3561947>

- “The Meeting Point of Three Islamisms: Pietist, Parasitic and Political,” (a Socio-Econometric conversation with Clement Henry), mimeograph, Rice University, presented at MESA, New Orleans, LA, November 15, 2019.
- “Al-Sanhuri on Riba,” mimeograph, Rice University, June 2019. At: <http://www.ruf.rice.edu/~elgamal/files/SanhuriOnRiba.pdf>
- “Pro-Capitalist Trends in Muslim Views: A Change-in-Change Analysis,” mimeograph, Rice University, April 2017. At: <https://ssrn.com/abstract=3008756>
- “Winter Is Coming: Controlled Conflicts and The Oil-Price Geopolitical-Risk Premium,” Center for Energy Studies, Baker Institute for Public Policy, Rice University, November 2016. At: <https://www.bakerinstitute.org/research/winter-coming-controlled-conflicts-and-oil-price-geopolitical-risk-premium/>
- “Discordant Egyptian and Saudi Visions 2030 and The Forgotten Quest for MENA Economic Integration,” Center for the Middle East, Baker Institute for Public Policy, Rice University, September 2016. At: <http://www.bakerinstitute.org/media/files/files/b8dde1c6/CME-pub-Visions-091216.pdf>
- “Bread (Rawls) + Freedom (Sen) = Social Justice? Religion and Economics in the Egyptian Spring,” presented at *Festschriften* conference for Roger Owen. Volume is being edited by Don Babai, publisher to be determined, August 2015, forthcoming. <https://ssrn.com/abstract=3005544>
- “Oil Demand, Supply, and Medium-Term Price Prospects: A Wavelets-Based Analysis,” (with Amy Jaffe), Center for Energy Studies, James A. Baker III Institute for Public Policy, June 2013. At: <http://www.bakerinstitute.org/media/files/files/8ebeaa66/CES-pub-ElGamalJaffeOilWaveletsAnalysisWP-063013.pdf>
- “Chinese Growth Prospects in the Short to Medium Term,” James A. Baker III Institute for Public Policy, December 2011. At: <http://www.bakerinstitute.org/media/files/Research/01b97f04/EF-pub-RiseOfChinaElGamal-120211-WEB.pdf>
- “Financial Imbalances, Middle East Industrialization, and Carbon Dioxide Emissions,” James A. Baker III Institute for Public Policy, September 2010. At: http://www.bakerinstitute.org/media/files/Research/a2bb6a44/CarbonSolutionsElGamal-Final_with_cover_secured.pdf
- “Energy, Financial Contagion, and the Dollar” (with Amy Myers Jaffe), James A. Baker III Institute for Public Policy, May 2008. At: <http://www.bakerinstitute.org/media/files/Research/29aedd0c/global-energy-market-working-papers.pdf>
- “Overview of Islamic Finance,” U.S. Department of the Treasury, Office of International Affairs, Occasional Paper Series (#4), August 2006, available online at: <http://www.scribd.com/doc/1195225/US-Treasury-08042006-OccasionalPaper4>

Teaching:

Executive education, etc.:

- Development and delivery of various modules in Energy Risk Management certificate program developed for Duke Energy (at Jones School, Rice University).
- Financial risk management (at Jones School, Rice University).
- Multiple lectures on Islamic finance and Middle East economies to Congressional staff (both house and Senate), and staff at various U.S. Departments and regulators.
- Multiple lectures (in Arabic) at the International Monetary Fund, on investment and growth in the Arab world; and macroeconomic monetary policy aspects of Islamic banking.
- *Ad hoc* modules on Islamic Law and Finance in Geneva, Kuwait, Dubai, & London.

Graduate and Undergraduate Courses:

- Graduate econometrics (time series, panel data, extreme value theory, Bayesian methods) (at Rochester, Caltech, U. Wisconsin at Madison, and Rice).
- Econometrics (at U. Rochester, Caltech, and U. Wisconsin at Madison).
- Principles of Financial Engineering (at Rice).
- Financial Markets and Institutions (at Rice).
- Chaotic Dynamics in Economic Systems (at Caltech).
- Ancient Egyptian History (jointly at Caltech).
- Philosophy of Social Science (jointly at Caltech).
- Statistical Decision Theory (at Caltech).
- Business Cycles (intermediate Macro; at Caltech).
- World Economic Development (at Rice).
- Introductory Economics (at Caltech).
- Experimental Economics (at Rice).
- Islamic Law, Economics and Finance (at Rice).
- Religion, Ethics, and Economics (at Rice).
- Graduate macro (at Rice).
- Computational Economics [Numerical Methods for Economists] (at Rice).
- Risk Management in the Energy Industry (at Rice).