

# JOHN STACHURSKI

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## Fields of Interest

- Dynamic programming, optimal stopping, asset pricing
- Numerical methods, computational economics
- Time series

## Professional Experience

- Professor, Research School of Economics, ANU, 2010–present
- Visiting Professor, Department of Economics, New York University, 2015–2016
- Associate professor, Research School of Economics, ANU, 2009–2010
- Associate professor, Kyoto Institute of Economic Research, 2006–2009
- Senior lecturer, Department of Economics, University of Melbourne, 2004–6
- Postdoctoral fellow, CORE, Université Catholique de Louvain, 2003–4
- Postdoctoral fellow, Kyoto Institute of Economic Research, 2002–3

## Advisory Boards

- Alfred P. Sloan Foundation Digital Information Technology Advisory Board
- OSM Lab Advisory Board (Becker–Friedman Institute at Chicago University)
- Member of the QuantEcon Steering Committee

## Grants, Scholarships and Fellowships

- 2017 Australian Research Council Future Fellow
- Alfred P. Sloan Foundation Award G-2016-7052 (with QuantEcon / NumFOCUS)
- Alfred P. Sloan Foundation Award G-2014-14522 (with Thomas J. Sargent)
- Australian Research Council Discovery Grant DP120100321, 2012–2015
- Japan Society for the Promotion of Science Young Scientist Award, 2007–2009
- Murata Science Foundation Research Grant, 2006–2007
- Australian Research Council Postdoctoral Fellowship DP0557625, 2004–2005
- CORE Fellowship, Université Catholique de Louvain, 2003–2004
- Japan Society for the Promotion of Science Research Fellowship, 2002–2003
- Australian Postgraduate Award, 1999–2002
- Monbusho Research Scholarship, 1993–7

## Prizes and Awards

- 2012 ARC Discovery Outstanding Researcher Award
- 2007 IJET Lionel W. McKenzie Prize
- 2002 Melbourne University Chancellor's Prize for Excellence

## Books

- *A Primer in Econometric Theory*  
John Stachurski  
**The MIT Press, 2016**
- *Economic Dynamics: Theory and Computation*  
John Stachurski  
**The MIT Press, 2009**

## Chapters in Books

- *Poverty Traps*  
Costas Azariadis and John Stachurski  
**Handbook of Economic Growth**, S. Durlauf and P. Aghion, eds, 2005

## Manuscripts and Working Papers

- *Lectures in Quantitative Economics*  
Thomas Sargent and John Stachurski  
<http://lectures.quantecon.org>
- *Solving Recursive Utility Models with Stationary or Nonstationary Consumption*  
Jaroslav Borovička and John Stachurski

## Refereed Articles — Economics

- *Volatile Capital Flows and Financial Integration: The Role of Idiosyncratic Risk*  
Tomoo Kikuchi, John Stachurski and George Vachadze  
**Journal of Economic Theory**, in press, 2018
- *Span of Control, Transaction Costs and the Structure of Production Chains*  
Tomoo Kikuchi, Kazuo Nishimura and John Stachurski  
**Theoretical Economics**, 13(2), 729–760, 2018
- *Seeking Ergodicity in Dynamic Economies*  
Takashi Kamihigashi and John Stachurski  
**Journal of Economic Theory**, 163, 900–924, 2016

- *Simulation-Based Density Estimation for Time Series using Covariate Data*  
Yin Liao and John Stachurski  
**Journal of Business and Economic Statistics**, 33, 595–606, 2015
- *Perfect Simulation for Models of Industry Dynamics*  
Takashi Kamihigashi and John Stachurski  
**Journal of Mathematical Economics**, 56, 9–14, 2015
- *Solving the Income Fluctuation Problem with Unbounded Rewards*  
Huiyu Li and John Stachurski  
**Journal of Economic Dynamics and Control**, 45, 353–365, August 2014
- *Stochastic Stability in Monotone Economies*  
Takashi Kamihigashi and John Stachurski  
**Theoretical Economics**, 9 (2), 383–407, 2014
- *Stochastic Optimal Growth with Risky Labor Supply*  
Yiyong Cai, Takashi Kamihigashi and John Stachurski  
**Journal of Mathematical Economics**, 50, 167–176, 2014
- *Fitted Value Function Iteration with Probability One Contractions*  
Jeno Pal and John Stachurski  
**Journal of Economic Dynamics and Control**, 37 (1), 251–264, 2013
- *Bounding Tail Probabilities in Dynamic Economic Models*  
John Stachurski  
**Macroeconomic Dynamics**, 16, 117–126, 2012
- *Perfect Simulation of Stationary Equilibria*  
Kazuo Nishimura and John Stachurski  
**Journal of Economic Dynamics and Control**, 34, 577–584, 2010
- *Endogenous Inequality and Fluctuations in a Two-Country Model*  
Tomoo Kikuchi and John Stachurski  
**Journal of Economic Theory**, 144 (4), 1560–1571, 2009
- *On Geometric Ergodicity of the Commodity Pricing Model*  
Kazuo Nishimura and John Stachurski  
**International Journal of Economic Theory**, 5 (3), 293–300, 2009
- *Equilibrium Storage with Multiple Commodities*  
Kazuo Nishimura and John Stachurski  
**Journal of Mathematical Economics**, 45, 80–96, 2009
- *Computing the Distributions of Economic Models via Simulation*  
John Stachurski and Vance Martin  
**Econometrica**, 76 (2), 443–450, 2008

- *Continuous State Dynamic Programming via Nonexpansive Approximation*  
John Stachurski  
**Computational Economics**, 31 (2), 141–160, 2008
- *Parametric Continuity of Stationary Distributions*  
Cuong Le Van and John Stachurski  
**Economic Theory**, 33 (2), 333–348, 2007
- *Stochastic Optimal Growth when the Discount Rate Vanishes*  
Kazuo Nishimura and John Stachurski  
**Journal of Economic Dynamics and Control**, 31 (4), 1416–1430, 2007
- *Stochastic Optimal Growth with Nonconvexities*  
Kazuo Nishimura, Ryszard Rudnicki and John Stachurski  
**Journal of Mathematical Economics**, 42 (1), 74–96, 2006
- *Some Stability Results for Markovian Economic Semigroups*  
Leonard Mirman, Kevin Reffett and John Stachurski  
**International Journal of Economic Theory**, 1 (1), 57–72, 2005
- *Stability of Stochastic Optimal Growth Models: A New Approach*  
Kazuo Nishimura and John Stachurski  
**Journal of Economic Theory**, 122 (1), 100–118, 2005
- *Stochastic Growth with Increasing Returns: Stability and Path Dependence*  
John Stachurski  
**Studies in Nonlinear Dynamics and Econometrics**, 7 (2), Article 1, July 2003
- *Stochastic Growth: Asymptotic Distributions*  
John Stachurski  
**Economic Theory**, 21 (4), 913–919, 2003
- *Economic Dynamical Systems with Multiplicative Noise*  
John Stachurski  
**Journal of Mathematical Economics**, 39 (1–2), 135–152, 2003
- *Stochastic Optimal Growth with Unbounded Shock*  
John Stachurski  
**Journal of Economic Theory**, 106 (1), 40–65, 2002

## Refereed Articles — Mathematics

- *Simple Fixed Point Results for Order-Preserving Self-Maps and Applications to Nonlinear Markov Operators*  
Takashi Kamihigashi and John Stachurski  
**Fixed Point Theory and Applications**, 2013:351, 2013

- *Generalized Look-Ahead Methods for Computing Stationary Densities*  
R. Anton Braun, Huiyu Li and John Stachurski  
**Mathematics of Operations Research**, 37, 489-500, 2012
- *An Order-Theoretic Mixing Condition for Monotone Markov Chains*  
Takashi Kamihigashi and John Stachurski  
**Statistics and Probability Letters**, 82, 262–267, 2012
- *Log-Linearization of Stochastic Economic Models*  
John Stachurski  
**Journal of Difference Equations and Applications**, 13 (2&3), 217–222, 2007

## Edited Collections

- *Nonlinear Dynamics in Equilibrium Models: Chaos, Cycles and Indeterminacy*  
John Stachurski, Alain Venditti and Makoto Yano (eds)  
**Springer**, 2012

## Education

- Ph.D. in Economics, University of Melbourne, 2002
- Masters in Economics, University of Tokyo, 1997
- Bachelor of Arts, University of Melbourne, 1993

## Other Professional Activities

- **Workshops**
  - Lead organizer of the *PhD Workshops on Computational Economics* series at Columbia, MIT, Harvard, Princeton, Berkeley, Stanford, UCLA and UC San Diego, September 2017
  - Lead organizer of the *RBA–RBNZ Computational Economics with Julia* Workshops in Australia and NZ, March 2017
  - Lead organizer of the *Econometric Society Workshop on Python and Julia* at the Summer Meetings of the Econometric Society, Philadelphia, June 2016
  - Co-organized and ran the *Workshop on Scientific Computing* at the Federal Reserve Bank of Chicago, May 2016
- **Short Courses**
  - Open Source Macroeconomics Lab instructure, Chicago University, June 2018

- Shenzhen Winter School Computational Economics instructor, June 2018
- Columbia University Mini Course on Computational Economics, March 2018
- Tinbergen Short Course on Computational Economics, June 2018
- Open Source Macroeconomics Lab instructor, Chicago University, June 2017

- **Editorial and Referee Work**

- Associate Editor, *Journal of Computational Social Science*
- Referee for *Econometrica*, *Journal of Economic Theory*, *American Economic Review*, *Theoretical Economics*, *Annals of Operations Research*, *Journal of Mathematical Economics*, *Journal of Economic Dynamics and Control*, *Journal of Economic Growth*, etc.

- **Keynotes and Invited Sessions**

- 2018 Econometric Society Australasian Meeting, Auckland, July 2018
- 26th Annual Symposium of the Society for Nonlinear Dynamics and Econometrics, Tokyo, March 2018
- 2013 Econometric Society Australasian Meeting, Sydney, July 2013

- **Conference Presentations**

- 2nd Asia-Pacific Conference on Economic Dynamics, Vietnam, December 2016
- 16th SAET Conference, Rio, July 2016
- Federal Reserve Bank of Chicago Computational Economics Conference, Chicago, May 2016
- 20th International Conference on Computing in Economics and Finance, Oslo, June 2014
- Asia-Pacific Conference on Economic Dynamics, Vietnam, November 2013
- Asian Meeting of the Econometric Society, Singapore, August 2013
- 13th SAET Conference, Paris, July 2013
- 2013 Vietnamese Economic Association Meeting, Hue, June 2013
- 2012 Summer Workshop on Economic Theory, Paris, July 2012
- 12th SAET Conference, Brisbane, July 2012
- 17th International Conference on Computing in Economics and Finance, San Francisco, July 2011
- IJET Conference, Kyoto, February 2011
- 10th SAET Conference, Singapore, August 2010
- 4th Workshop on Macroeconomic Dynamics, Singapore, August 2009
- 15th International Conference on Computing in Economics and Finance, Sydney, July 2009

- 4th International Conference of Economic Theory, Tokyo, February 2007
- 7th International Public Economic Theory Conference, Hanoi, August 2006
- 12th International Conference on Computing in Economics and Finance, Cyprus, June 2006
- Instability and Fluctuations in Intertemporal Equilibrium Models, Marseille, June 2005
- Winter Meeting of the Econometric Society, Philadelphia, January 2005
- Handbook of Economic Growth Conference, New York, December 2004
- Economic Growth and Distribution, Lucca, June 2004
- 13th European Workshop on General Equilibrium Theory, Venice, June 2004
- 1st International Conference on Economic Theory, Tokyo, March 2004
- Conference on Irregular Growth, Université Paris 1, July 2003

- **Research Visits**

- Chicago University, Becker–Friedman Institute, July 2018
- Tinbergen Institute, June 2018
- Department of Economics, Copenhagen University, May 2018
- Chicago University, Becker–Friedman Institute, July 2017
- RIEB Kobe University, February 2017
- Singapore Management University, January 2017
- Department of Economics, Keio University, October 2016
- Montana USA (working with Tom Sargent), August 2016
- Department of Economics, UC Santa Barbara, July 2016
- Department of Economics, Georgetown University, May 2016
- Singapore Management University, January 2015
- RIEB Kobe University, September 2014
- New York University, April 2014
- Montana USA (working with Tom Sargent), September 2013
- National University of Singapore, August 2013
- Seoul National University, April 2013 and May 2013
- National University of Singapore, April 2013
- KIER, Kyoto University, December 2012
- National University of Singapore and Kyoto University, Sept/Oct 2012
- Department of Economics, National University of Singapore, July 2012
- KIER, Kyoto University and RIEBA, Kobe University, May 2012
- Department of Economics, Cornell University, December 2011

- KIER, Kyoto University, July 2011
- Department of Management Science, Stanford University, July 2011
- KIER, Kyoto University, November 2010
- Department of Economics, Tokyo University, February 2010
- KIER, Kyoto University, February 2010
- Department of Economics, Melbourne University, February 2008
- School of Economics, University of Tasmania, February 2008
- Department of Economics, Hokkaido University, January 2008
- Department of Economics, National University of Singapore, October 2007
- WP Carey School of Business, Arizona State University, February 2006
- Economics Department, UCLA, May 2005
- RIEBA, Kobe University, February 2005
- Economics Department, SMU, Dallas, January 2005
- G.R.E.Q.A.M. at Marseille, April 2004
- WP Carey School of Business, Arizona State University, March 2004
- Economics Department, UCLA, February 2004
- Institute of Mathematics, Silesian University, Poland, December 2001
- Center, Tilburg University, The Netherlands, November 2001
- CERMSEM, Université Paris 1, Panthéon–Sorbonne, October 2001

## Other Skills

- Japanese language
- Programming in Python, R and C; UNIX environment

## Other Achievements

- Gold, first taekwondo Olympic selection trial, U58kg, 1999
- Gold, Australian national taekwondo championships, 54–58kg, 1993
- Gold, Japanese national taekwondo championships, U54kg, 1991