

# Steven Benjamin Levkoff, PhD, CAP<sup>®</sup>

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Department of Economics  
University of California, San Diego  
Economics Building, Room 207  
9500 Gilman Drive #0508, La Jolla, CA 92093  
Office: Economics Building, Room 112

Office Phone: +1-858-822-6481  
Dept. Fax: +1-858-822-2657  
Email: [slevkoff@ucsd.edu](mailto:slevkoff@ucsd.edu)  
Webpage: <http://www.stevelevkoff.com>  
Citizenship: United States of America

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## Current Positions

- **Adjunct Professor**, *University of San Diego, School of Business*, August 2016-present
  - Department of Economics
- **Lecturer**, *University of California, San Diego*, July 2012-present
  - Department of Economics
  - Graduate School of Global Policy & Strategy (formerly IR/PS)
- **Analytics, Data Science, & Strategy Consultant**, *Contracted*, August 2016-present

## Education

- **Ph.D. in Economics**, *University of California, Riverside, August 2011*
  - Major Fields – Microeconomic Theory (Field Exam Passed, September 2007), Environmental Economics & Natural Resource Management, Macroeconomic Theory
  - Minor Field – Econometrics (panel data models and nonparametric estimation)
- **M.A. in Economics**, *University of California, Riverside, December 2006*
- **B.A. with Honors in Economics**, *The Johns Hopkins University, May 2005*
  - Additional Major – Applied Mathematics
  - Minors – Mathematics, Entrepreneurship & Management
  - Graduated in three years; Pre Med/Pre Law

## Dissertation

- “*Essays on Efficiency Measurement with Environmental and Behavioral Applications*,”
  - Under Professors R. Robert Russell (Co-Chair), David Malueg (Co-chair), Jang-Ting Guo, and Amnon Rapoport

## Research Interests

- Primary (Academic)
  - Productivity Analysis, Energy Markets, and the Environment
- Secondary (Academic)
  - Behavioral / Experimental Economics, Game Theory, and Industrial Organization
- Tertiary (Private Sector)
  - Machine Learning, Big Data Analytics

## Publications, Projects, & Working Papers

- “On Modeling Pollution-Generating Technologies.” (with R. Robert Russell and Sushama Murty) *Journal of Environmental Economics and Management*, 2012, Volume 64, Issue 1, p117-35.
- “Boundary Problems with the 'Russell' Graph Measure of Technical Efficiency: A Refinement.” (with R. Robert Russell and William Schworm) *Journal of Productivity Analysis*, 2012, Volume 37, Issue 3, p239-48.
- “Decomposing NO<sub>x</sub> and SO<sub>2</sub> Electric Power Plant Emissions in a ‘By-production’ Framework: A Nonparametric DEA Study,” working paper, UCSD.
- “Efficiency Trends in U.S. Coal-fired Energy Production & the 1990 Clean Air Act Amendment: A Nonparametric Approach,” working paper, UC San Diego.
- “Testing for Technological Regress in the U.S. Electrical Industry from 1985-1995,” working paper, UC San Diego.
- “A Profit Frontier Approach to Measuring Coordination Failure as Focal Point Threshold Inefficiencies in Infinite Horizon Prisoners' Dilemma Games,” funded by NSF Grant SES-0962668, working paper, UC San Diego.
- “Payoff Asymmetries and Inefficiencies in Cooperative and Non cooperative Infinite Horizon Games: Experimental Evidence,” funded by NSF Grant SES-0962668, working paper, UC San Diego.
- “Time Horizon Misperceptions and Coordination Failure in Infinitely Repeated Games: Experimental Evidence,” funded by NSF Grant SES-0962668, working paper, UC San Diego.
- “The Efficiency of Ex-post Rationalization of Decisions Under Uncertainty,” working paper, UC San Diego.
- “On Balance-optimizing the PVP Experience,” featured post on *Gamasutra*, 2014.
- “On the Ethical Dilemma of Making Virtual Experiences Too Compelling,” special guest post on *Nerd Kingdom's Science Blog* at, 2013.
- “Real Trade-offs in Virtual Worlds,” special guest post on *Nerd Kingdom's Science Blog* at and featured post on *Gamasutra*, 2013-14.

## Teaching Experience

- **University of San Diego, August 2016-Present**
  - *Adjunct Professor* – Principles of Microeconomics; Principles of Macroeconomics, Big Data Analytics (next year)
- **University of California, San Diego, July 2012-Present**
  - *Lecturer* – Principles of Microeconomics, Market Imperfections & Policy, Microeconomic Theory (B & C), Game Theory, Decisions Under Uncertainty, Operations Research (B), Corporate Finance (GPS Graduate Level), Macroeconomic Theory (A & B), Investment Science (GPS Graduate Level)

- **University of California, Riverside, 2005-2012**
  - *Lecturer/Associate In* – Graduate Mathematical Methods in Economics, Industrial Organization, Law and Economics, Information Economics & Information Technology, Managerial Economics & Finance, Intermediate Microeconomic Theory I & II, Principles of Microeconomics, Game Theory and Business Strategy, Natural Resource Economics; Money, Credit & Banking, Intermediate Macroeconomic Theory I & II
  - *Teaching Assistant* – Graduate Microeconomic Theory, Intermediate Microeconomic Theory I & II, Principles of Microeconomics, Industrial Organization, International Trade, Labor Economics, American Economic History
- **California State University, San Bernardino, Fall 2010-Spring 2012**
  - *Adjunct Professor* – Principles of Microeconomics, Principles of Macroeconomics
- **Kaplan Test Prep. and Admissions, Riverside, 2006-2011**
  - *Elite Faculty* – GRE\*, GMAT\*, LSAT, SAT, PCAT, MCAT
- **The Johns Hopkins University, 2004-2005**
  - *Tutor, Office of Academic Advising* - Microeconomic Theory, Macroeconomic Theory, International Trade, Investment Portfolio Management, Econometrics, Calculus 1&2, and Physics 1&2.

## Grants, Honors, & Awards

- Distinguished Lecturer Teaching Award, UC San Diego, 2015-2016
- NSF Professional Development Award, UC San Diego, 2013-2014
- NSF Professional Development Award, UC San Diego, 2012-2013
- National Science Foundation Doctoral Dissertation Grant SES-0962668, 2010-2011
- Judge, Intel's International Science and Engineering Fair, Los Angeles, 2011
- Elite Faculty Member, Kaplan Test Prep and Admissions, Riverside 2009, 2010
- Teacher of the Year, Kaplan Test Prep and Admissions, Riverside 2007-2008
- Chancellor's Distinguished Fellow, University of California, Riverside 2005
- Matthew Crenson Scholarship for Outstanding Academic Record, Johns Hopkins 2005
- Outstanding Technology Transfer Proposal, Applied Physics Lab, Johns Hopkins 2005
- Dean's List, The Johns Hopkins University 2003-2004
- Berks Best Nominee, Social Sciences 2002
- Joseph E. Charnigo Award, Physics and Chemistry 2002
- E. Jerry Brooks Award, Outstanding Scholar and Sportsman 2002

## Professional Activity & Work Experience

- **Analytics, Data Science, and Strategy Consultant**, Nerd Kingdom, Inc., August 2015-August 2016
- **Chief Financial Officer**, Nerd Kingdom, Inc., December 2014-August 2015
- **Chief Economist & Data Scientist**, *Nerd Kingdom, Inc.*, June 2013-December 2014
- **Director of Economic Research & Analytics**, *Nerd Kingdom, Inc.*, September 2012-May 2013
- **Chief Information Officer / Behavioral Economist**, *Nerd Kingdom Inc.*, April 2010 – August 2012.
- **Research Assistant**, under Professor R. Robert Russell, April 2010- April 2011.
- **Research Assistant**, under Professor Richard Arnott, December 2007.

- **Intellectual Property Consultant**, *The Whitaker Biomedical Engineering Institute* at the Johns Hopkins University, microfluidics chip technology with medical applications; Summer 2005
- **Technology Transfer Analyst**, *The Johns Hopkins University's Applied Physics Laboratory*, integrated storage system for compressed hydrogen gas fuel cell technology. Spring 2005.
- **Junior Analyst**, interned under the *Associate Vice President of Investments: Wachovia Securities, Moy/Zaft Consulting* – Baltimore, MD: Unpaid internship for credit during the intersession term January 2004 which led to a paid position during the spring semester from February to April 2004.

## Conferences & Seminars

- Invited Panelist (Technology), UC San Diego, Sigma Chi Career Summit, October 2016
- Invited Judge (Technology), UC San Diego, Pi Beta Lambda, April 2016
- Invited Panelist, UC Riverside, Beyond Academia Ph.D. Career Conference, March 2016
- Invited Panelist, UC San Diego Ph.D. Career Conference, May 2015
- INFORMS Business and Analytics Conference, Huntington Beach, April 2015
- “Assessing the Energy-emissions Efficiency Tradeoff in the U.S. Coal-fired Power Industry: A Nonparametric Approach,” Invited Speaker, International Conference on Business, Honolulu HI, May 2014.
- Games Users Research Summit, San Francisco, CA, March 2014
- Game Developers Conference, San Francisco, CA, March 2014
- “On Running Massive Behavioral Experiments,” Invited Speaker, Applied Economics Seminar, Department of Economics, UC Riverside, June 2013
- AEA 3<sup>rd</sup> Annual Conference on Teaching & Research in Economic Education, May 2013
- AEA Continuing Education Program – Public Finance, January 2013
- Allied Social Sciences Association Annual (ASSA) Meetings, San Diego, January 2013
- Southwest Economic Theory Conference, UC San Diego, March 2012
- “Measurement of Coordination Failure in Infinitely Repeated Games: A Payoff Frontier Approach,” Colloquium Speaker, Department of Economics, UC Riverside, Spring 2011
- “Boundary Problems with the ‘Russell’ Graph Measure of Technical Efficiency: A Refinement,” Colloquium Speaker, Department of Economics, UC Riverside, Fall 2010
- All UC Econometrics Conference, Riverside, September 2009
- Conference on Business Cycles: Theoretical and Empirical Advances, UC Riverside, April 2009
- Southwest Economic Theory Conference, CalTech, March 2009
- Organized the conference on “Non-Welfaristic Welfare: Capability, Choice, and Rights” in honor of Prasanta Pattanaik’s retirement, UC Riverside, October 2007

## Referee For

- *Journal of Environmental Economics and Management*
- *Journal of Productivity Analysis*
- *Journal of Economics and International Finance*
- *South African Journal of Economics*
- *Journal of Agricultural Research and Development*
- *Economic Theory*
- *Environmental and Resource Economics*

## Research / Internship Advisor For

- Daniel Bassil, UC San Diego, 2013 (internship)
- To-Van Hoang, UC San Diego, 2013 (internship)
- Christopher Campos, UC San Diego 2014 (research)
- Michael Topper, UC San Diego 2014 (research)
- Da (Jackie) Ryu, UC San Diego 2015 (research)

## Programming Proficiencies & Statistical Software Packages

- MATLAB\*, R\*, Eviews, C++, Mathematica, GAMS, Gauss, LaTeX, & MS Office

## Certifications

- Certified Judo Coach (Level I), *United States Judo Association*, December 2016
- Certified Analytics Professional (CAP<sup>®</sup>), *INFORMS*, November 2016
- Certified Brown Belt Rank (Ikkyu) in Judo, *United States Judo Association*, March 2016
- Data Science Specialization (with distinction), *The Bloomberg School of Public Health, The Johns Hopkins University*, August 2015
- Executive Data Science Specialization, *The Johns Hopkins University*, September 2015
- Big Data Specialization, *UC San Diego Extension*, September 2015

## Professional Associations & Affiliations

- Institute for Operations Research and Management Science (INFORMS)
- Energy, Natural Resources, and the Environment Section of INFORMS (ENRE)
- Center for Environmental Economics at UC San Diego (CEE)
- American Economic Association (AEA)
- Society for Science and the Public (SSP)
- International Game Developers' Association (IGDA)
- Phi Kappa Psi

## References

### **Dr. Nancy Gilson, PhD**

Director of Degree Programs  
UC San Diego  
School of Global Policy  
San Diego, CA 92093  
Phone: +1-858-534-7496  
Fax: +1-858-534-3939  
[ngilson@ucsd.edu](mailto:ngilson@ucsd.edu)

### **Dr. Melissa Famulari, PhD**

Vice Chair of Undergrad Ed.  
UC San Diego  
Department of Economics  
San Diego, CA 92093  
Phone: +1-858-534-3878  
Fax: +1-858-534-7040  
[nfamulari@ucsd.edu](mailto:nfamulari@ucsd.edu)

### **Dr. Kate Antonovics, PhD**

Lecturer w/ Security of Employment  
UC San Diego  
Department of Economics  
San Diego, CA 92093  
Phone: +1-858 534-2973  
Fax: +1-858-534-7040  
[kantonov@ucsd.edu](mailto:kantonov@ucsd.edu)

### **Dr. R. Robert Russell, PhD**

Professor Emeritus  
UC Riverside  
Department of Economics  
Riverside, CA 92521  
Phone: +1-951-827-1585  
Fax: +1-951-827-5685  
[robert.russell@ucr.edu](mailto:robert.russell@ucr.edu)

### **Dr. Aman Ullah, PhD**

Department Chair  
UC Riverside  
Department of Economics  
Riverside, CA 92521  
Phone: +1-951-827-1591  
Fax: +1-951-827-5685  
[aman.ullah@ucr.edu](mailto:aman.ullah@ucr.edu)

### **Dr. Krislert Samphantharak, PhD**

Associate Dean  
UC San Diego  
School of Global Policy & Strategy  
San Diego, CA 92093  
Phone: +1-858-534-3078  
Fax: +1-858-534-3939  
[krislert@ucsd.edu](mailto:krislert@ucsd.edu)