

## CURRICULUM VITAE

UNIVERSITY of WASHINGTON

Department of Economics

December 17, 2020

### Eric Zivot

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**Date of Birth:** 03/02/63

**Citizenship:** USA

### Education

**Degrees:** Ph.D. Economics, Yale University, May 1992. A.B. Economics (with honors) and A.B. Statistics, The University of California, Berkeley, May 1986.

**Fields of Concentration:** Time series econometrics, econometric theory, financial econometrics and empirical international finance.

**Dissertation Title:** Essays on Bayesian and Classical Methods of Trend Determination in Economic Time Series.

**Committee:** Professors Peter C.B. Phillips, Donald W.K. Andrews and Christopher A. Sims.

### Academic Appointments and Teaching Experience

**Department of Economics, University of Washington:** *Department Chair* (7/20 – present). *Robert Richards Chaired Professor of Economics* (9/10-present, on leave at Amazon 11/16-12/19). *Gary Waterman Distinguished Scholar and Professor* (9/07-present). *Gary Waterman Distinguished Scholar and Associate Professor* (9/00-present). *Assistant Professor* (9/93-6/00). Taught graduate level econometrics, time series econometrics and financial econometrics; undergraduate intermediate macroeconomics, financial economics, econometrics, applied econometrics, computational finance. Taught the first UW course to be offered on Coursera.

**Department of Statistics, University of Washington:** *Adjunct Professor* (9/08 – present).

**Department of Finance, University of Washington:** *Adjunct Professor* (9/07 – present). *Adjunct Associate Professor* (9/03 – 8/07)

**Department of Applied Mathematics, University of Washington:** *Adjunct Professor* (9/11 – 9/17). Co-Director of the Professional Masters Program in Computational Finance and Risk Management (2011-2016)

**Department of Economics, American University:** *Distinguished Adjunct Professor* (5/09 – present)

**Department of Economics, University of California Berkeley:** *Visiting Scholar* (1/03 – 6/03).

**Department of Economics, University of Amsterdam and Vrije Universiteit Amsterdam:** *Visiting Scholar* (9/02 – 10/02)

**Department of Economics, University of California Los Angeles:** *Visiting Assistant Professor* (1/98-3/98). Taught undergraduate intermediate macroeconomics and financial econometrics.

**Tinbergen Institute, Erasmus University Rotterdam:** *Visiting Scholar* (9/99-10/99, 6/97-7/97).

**Department of Economics, Boston University:** *Visiting Lecturer* (9/92-12/92). Taught first semester graduate econometrics.

**Department of Economics, Wellesley College:** *Assistant Professor* (9/91 - 5/93). Taught introductory statistics and econometrics, senior level econometrics and corporate finance/investments. *Instructor* (9/90 - 5/91). Taught introductory macroeconomics and senior level econometrics.

### **Publications (Refereed Journals and Books)**

“Indirect Inference Based on the Score,” (with Peter Fuleky) *Econometrics Journal*, October 2014.

“Evaluating the Impact of Environmental Policy on the Trend Behavior of U.S. Emissions of Nitrogen Oxides and Volatile Organic Compounds,” *Natural Resource Modeling*, September 2014.

“Forecasting Inflation using Commodity Price Aggregates,” (with Yu-Chin Chen and Stephen Turnovsky), *Journal of Econometrics*, June, 2014

“Predicting Stock Volatility Using After-Hours Information: Evidence from the NASDAQ Actively Traded Stocks,” with Frederick Chen and William Yu, *International Journal of Forecasting*, June 2012.

“A New Method of Projection-Based Inference in GMM with Weakly Identified Nuisance Parameters,” with Saraswata Chaudhuri, *Journal of Econometrics*, June 2011.

“State Space Modeling Using SsfPack in S+FinMetrics 3.0,” *Journal of Statistical Software*, May 2011.

“Forecasting the Term Structures of Treasury and Corporate Yields: Dynamic Nelson-Siegel Models Evaluation,” with William Yu, *International Journal of Forecasting*, April-June 2011.

“Structural Change in the Forward Discount: Implications for the Forward Premium Unbiasedness Hypothesis,” with Kyongwook Choi and George Sakoulis, *Journal of Empirical Finance*, November 2010.

“Long Memory versus Structural Breaks in Modeling and Forecasting Realized Volatility,” with Kyongwook Choi and William Yu, *Journal of International Money and Finance*, September 2010.

“Postwar Slowdowns and Long-Run Growth: A Bayesian Approach to Structural Break Models,” with Yi-Chi Chen, *Empirical Economics*, December 2010.

“Extracting a Robust U.S. Business Cycle Using a Time-Varying Multivariate Model-Based Bandpass Filter,” with Drew Creal and Siem Jan Koopman, *Journal of Applied Econometrics*, June-July 2010.

“Split-Sample Score Tests in Linear Instrumental Variables Regression, with Saraswata Chaudhuri, Thomas Richardson and James Robins, *Econometric Theory*, March 2010.

“A Structural Analysis of Price Discovery Measures,” with Bingchen Yan, *Journal of Financial Markets*, February 2010.

“Comment on Weak Instrument Robust Tests in GMM and the New Keynesian Phillips Curve”, with

Saraswata Chaudhuri, *Journal of Business and Economic Statistics*, July 2009.

“The Relationship between the Beveridge-Nelson Decomposition and Other Permanent-Transitory Decompositions that are Popular in Economics,” with Kum Hwa Oh and Drew Creal. *Journal of Econometrics*, April 2009.

“Long Memory and Structural Breaks in the Forward Discount,” with Kyongwook Choi, *Journal of International Money and Finance*, February 2007.

*Modeling Financial Time Series with S-PLUS, Second Edition*, with Jiahui Wang, Springer-Verlag, January 2006.

“Why Are Unobserved Component and Beveridge-Nelson Trend-Cycle Decompositions of GDP So Different?”, with James Morley and Charles Nelson, *Review of Economics and Statistics*, May 2003.

“Classical and Bayesian Approaches to Instrumental Variables Regression,” with Frank Kliebergen, *Journal of Econometrics*, May 2003,

*Modeling Financial Time Series With S-Plus*, with Jiahui Wang, Springer-Verlag, October 2002.

“Further Evidence on the Great Crash, the Oil Price Shock and the Unit Root Hypothesis,” with Donald W.K. Andrews, *Journal of Business & Economic Statistics*, Reprinted, July 2002.

“Threshold Cointegration and Nonlinear Adjustment to the Law of One Price,” with Ming Lo, *Macroeconomic Dynamics*, 5, 2001, 533-576.

“Unit Root Tests in the Presence of Markov Switching,” with Charles Nelson and Jeremy Piger, *Journal of Business and Economic Statistics*, October 2001

“Cointegration and Forward and Spot Exchange Rate Regressions,” *The Journal of International Money and Finance*, 19, December 2000, 785-812.

“A Bayesian Time Series Model of Multiple Structural Changes in Level, Trend and Variance,” with Jiahui Wang, *Journal of Business and Economic Statistics*, July 2000.

The Power of Single Equation Tests for Cointegration When the Cointegrating Vector is Prespecified,” *Econometric Theory*, June 2000.

“Inference on a Structural Parameter in Instrumental Variables Regressions with Weak Instruments,” with Jiahui Wang, *Econometrica*, 66(6), November 1998.

“Valid Confidence Intervals and Inference in the Presence of Weak Instruments,” with Charles Nelson and Richard Startz, *International Economic Review*, 39(4), November 1998.

"A Bayesian Analysis of Trend Determination in Economic Time Series," with Peter C.B. Phillips, *Econometric Reviews*, 13(3), September 1994.

"A Bayesian Analysis of the Unit Root Hypothesis within an Unobserved Components Model", *Econometric Theory*, Vol. 10, Nos. 3/4, August/October 1994.

"Further Evidence on the Great Crash, the Oil Price Shock and the Unit Root Hypothesis," with Donald

W.K. Andrews, *Journal of Business & Economic Statistics*, Vol. 10, No. 3, July 1992.

### **Publications (Refereed Book Chapters)**

“Multivariate GARCH models for large-scale applications: A survey” with Kris Boudt, Alexios Galanos, and Scott Payseur, Chapter 7 in *Handbook of Statistics 41: Conceptual Econometrics Using R*, H. Vinod and C.R. Rao (ed), Elsevier, September 2019.

“Practical Aspects of GARCH Modeling” chapter for *Handbook of Financial Time Series*, Torben G. Andersen, Richard A. Davis, Jens-Peter Kreiss, and Thomas Mikosch (eds.), Springer-Verlag. Summer 2008.

“Improved Inference in Weekly Identified Instrumental Variable Regression” with Dick Startz and Charles Nelson, in *Frontiers of Analysis and Applied Research: Essays in Honor of Peter C.B. Phillips*, (edited by Dean Corbae, Stephen Durlauf, and Bruce Hansen) Cambridge University Press, December 2005.

“State Space Modeling in Economics and Finance Using *SsfPack* in S+FinMetrics,” with Jiahui Wang and Siem-Jan Koopman,” in *State Space and Unobserved Component Models*, (edited by Andrew Harvey, Siem-Jan Koopman and Neil Shepard), Cambridge University Press: Cambridge, 2004.

"A Comment on Dynamic Specification and Testing for Unit Roots and Co-Integration", in *Macroeconometrics: Developments, Tensions and Prospects*, Kevin D. Hoover, ed., Kluwer (Spring 1995).

### **Publications (Non Refereed Books or Journals)**

Review of *Statistics and Finance: An Introduction* by David Ruppert, Springer-Verlag. *Journal of the American Statistical Association*, 2006.

“Modeling Financial Time Series with S-PLUS and S+FinMetrics,” *The Technical Analyst*, 12, December 2005.

### **Research in Progress: Completed Papers**

“Price Discovery Share-An Order Invariant Measure of Price Discovery with Application to Exchange-Traded Funds,” (with Sayed Galib Sultan). January 2015.

“Cross-Border Listing and Price Discovery: Canadian Blue Chips Traded in TSX and NYSE,” (with Lucas Kim). September 2012.

“The Dynamics of Price Discovery,” with Bingchen Yan. January 2010.

“Implications of Two Measures of Persistence for Correlation Between Permanent and Transitory Shocks in US Real GDP,” with Daisuke Nagakura, January 2007.

“The Clark Model with Correlated Components,” with Kum Hwa Oh. January 2006.

“Analysis of High Frequency Data with S-PLUS,” with Bingchen Yan. November, 2005.

“Inference on Unit Roots and Trend Breaks in Macroeconomic Time Series,” with Christian Murray (University of Houston), unpublished manuscript, Department of Economics, University of Washington, July 1998.

## **Research in Progress: Manuscripts in Preparation**

### **Articles**

“Factor Model Risk Analysis for Hedge Funds” in preparation for *Oxford Handbook of Hedge Funds*, Douglas Cumming, Sofia Johan and Geoff Wood (eds.).

Book review of *Reproducible Finance With R: Code Flows and Shiny Apps for Portfolio Analysis*, by Jonathan K. Regenstein, Jr., for *The American Statistician*.

“Risk Attribution with Factor Model Monte Carlo”, with Doug Martin.

“Further Evidence on Simulation Estimators with Implications for Term Structure Estimation,” with Peter Fuleky.

“The Distribution of Shea’s Partial  $R^2$  Statistic in the Presence of Weak Instruments,” with Saraswata Chaudhuri.

### **Books**

*Modeling Financial Time Series with R*. To be published by Springer-Verlag, date TBD.

*Introduction to Computational Finance and Financial Econometrics with R*, Chapman & Hall (CRC Press), Date TBD.

Computational Finance and Risk Management, (with R. Douglas Martin), publisher TBD, (manuscript in preparation)

## **Papers Presented at Professional Meetings and Conferences**

2015

1. “Price Discovery Share-An Order Invariant Measure of Price Discovery with Application to Exchange-Traded Funds,” (with Sayed Galib Sultan) at R/Finance 2015: Applied Finance with R, University of Illinois Chicago, May.

2012

1. “State Space Modeling in R”, workshop presentation (with Guy Yollin) at R/Finance 2012: Applied Finance with R, University of Illinois Chicago, May.
2. “Estimating the Dynamics of Price Discovery”, presented at R/Finance 2012: Applied Finance with R, University of Illinois Chicago, May.

2011

3. “Factor Risk Modeling in R”, workshop presentation at R/Finance 2011: Applied Finance with R, University of Illinois Chicago, April.

4. “Factor Model Risk Measurement and Management”, presented at R/Finance 2011: Applied Finance with R, University of Illinois Chicago, April.
5. “Factor Risk Modeling in R”, workshop presentation at the Scottish Financial Risk Academy, Heriot-Watt University, Edinburgh, Scotland, March.
6. “Factor Model Based Risk Management for Hedge Funds and Fund of Hedge Funds with Limited Transparency”, presented at the Scottish Financial Risk Academy Colloquium on Absolute Returns, University of Edinburgh, Scotland, March.

2010

7. “Analysis of High Frequency Data in R”, workshop presentation at the 1st R/Rmetrics Summer School and 4<sup>th</sup> User/Developer Meeting on Computational Finance and Financial Engineering, Meielisalp Switzerland, June.
8. “Simulation-based Estimation of Continuous-time Models in R”, presented at R/Finance 2010, University of Illinois Chicago, April.

2009

1. “Hedge Fund Risk Management in R”, keynote presentation at R/Finance: Applied Finance in R, University of Illinois Chicago, April.

2008

1. “Comment on ‘Weak Instrument Robust Tests in GMM and the New Keynesian Phillips Curve’”, presented at the Joint Statistical Meetings of the American Statistical Society, Denver, August.
2. “Testing Hypotheses in the Presence of Nuisance Parameters,” with Saraswata Chaudhuri, presented at the North American Winter Meetings of the Econometric Society, New Orleans, January.

2007

1. “Split-Sample Score Tests in Linear Instrumental Variables Regression, with Saraswata Chaudhuri, Thomas Richardson and James Robins. Presented at the Econometric Society Summer Meetings, Duke University, June.
2. “Evaluating Structural Models for the U.S. Short Rate using EMM and Particle Filters,” with Ying Gu and Drew Creal, presented at the *Studies in Nonlinear Dynamics and Econometrics* (SNDE) conference, INSEE, Paris, March 15-16.

2006

1. “The Clark Model with Correlated Components,” with Kum Hwa Oh, presented at the *Studies in Nonlinear Dynamics and Econometrics* (SNDE) conference, Washington University in St. Louis, March.

2005

1. “The Dynamics of Price Discovery,” with Bingchen Yan, and “Simulation-Based Estimation of Stochastic Volatility Models” presented at the Machine Learning in Finance Workshop (part of the Neural Information System Processing Conference), Whistler BC, December.
2. “A Comparison of Univariate Stochastic Volatility Models for U.S. Short Rates Using EMM Estimation,” presented at the 22<sup>nd</sup> Annual Canadian Econometric Study Group Meeting, Vancouver, October.
3. “The Dynamics of Price Discovery,” with Bingchen Yan, presented at the 9<sup>th</sup> World Congress of the Econometric Society, University College London, August.
4. Short Course “Analysis of High Frequency Financial Data: Methods, Models and Software” presented at the 11<sup>th</sup> Brazilian Time Series and Econometrics Meeting (ESTE), Vila Velha, Brazil, August.
5. “Simulated Method of Moments Estimation of Stochastic Volatility Models,” presented the 11<sup>th</sup> Brazilian Time Series and Econometrics Meeting (ESTE), Vila Velha, Brazil, August.
6. “S+FinMetrics 2.0: Advancing the State of the Art in Modeling Financial Time Series,” presented at

Insightful Corporation New York Finance and World Tour Event, April.

7. "The Dynamics of Price Discovery," with Bingchen Yan, presented at the American Finance Association Meetings, Philadelphia, January.

2004

1. "The Dynamics of Price Discovery," with Bingchen Yan, presented at the European summer meetings of the Econometric Society, Madrid Spain, August.
2. "Simulated Method of Moments Estimation of Stochastic Volatility Models," presented at the Insightful Finance Conference, New York, March.
3. "The Dynamics of Price Discovery," with Bingchen Yan, presented at the Midwest Economics Association Meetings, Chicago, March.

2003

1. "Analysis of High Frequency Financial Data with S-PLUS," with Bingchen Yan, presented at the Insightful Technology Conference, Las Vegas, October.
2. "A Dynamic Measure of Price Discovery," with Bingchen Yan, presented at the American Statistical Association Summer Meetings, San Francisco, August.
3. "Improved Inference for the Instrumental Variable Estimator," with Charles Nelson and Richard Startz, presented at the NBER-MIT conference on Weak Instruments, Cambridge MA, June.

2002

1. "State Space Modeling in Economics and Finance Using *SsfPack* in S+FinMetrics," presented at the Royal Netherlands Academy of Arts and Sciences Colloquium and Masterclass on State Space and Unobserved Components Models in honor of Professor Jim Durbin, Amsterdam, September.
2. "Time Variation and Structural Change in the Forward Discount: Implications for the Forward Rate Unbiasedness Hypothesis," and "Improved Inference for the Instrumental Variable Estimator" presented at the Eighth World Congress of the Econometric Society, University of Washington, August.
3. "Time Variation and Structural Change in the Forward Discount: Implications for the Forward Rate Unbiasedness Hypothesis," presented at the U.C. Santa Cruz conference on Topics in Empirical International Finance, April.

1999

1. "Threshold Cointegration and the Law of One Price," presented at the Tinbergen Institute/Macroeconomic Dynamics Conference "Nonlinear modeling of multivariate macroeconomic relations," Rotterdam, September.
2. "Threshold Cointegration and the Law of One Price," presented at the Cowles Foundation Conference Series: New Developments in Time Series Econometrics, Yale University, October.

1997

1. "Comparing Classical and Bayesian Inference in Instrumental Variables Regression," presented at The Colloquium on Weak Instruments, University of Montreal, October.
2. "Cointegration and Forward and Spot Rate Regressions," presented in the poster session at the NSF/NBER Time Series Conference, Duke University, October.

1996

1. "Valid Confidence Intervals and Inference in the Presence of Weak Instruments," presented at the Winter Econometric Society meetings, San Francisco, CA, January.

1995

1. "The Power of Single Equation Tests for Cointegration When the Cointegrating Vector is Known," presented at the NSF/NBER Time Series Conference, Cambridge, MA, November.

2. “Single Equation Conditional Error Correction Model-Based Tests for Cointegration,” presented at the 7th World Congress of the Econometric Society at Keo University in Tokyo, Japan, August.

1992

1. “A Bayesian Analysis of the Unit Root Hypothesis within an Unobserved Components Model,” presented at the NSF - NBER Seminar on Bayesian Inference in Econometrics and Statistics (Meeting in honor of Professor Edwin Jaynes), Washington University, April 10 – 11.
2. “A Bayesian Analysis of the Unit Root Hypothesis within an Unobserved Components Model,” presented at the NSF - Yale Conference Series: Bayes Methods and Unit Roots, Yale University, April 24 – 25.
3. “A Bayesian Analysis of the Unit Root Hypothesis within an Unobserved Components Model,” presented at the International Conference on Bayesian and Classical Econometric Modeling of Time Series, GREQE, Marseille, France, June 19 -20.

### **Seminar and Workshop Presentations**

2017

1. Federal Reserve Bank of Chicago.

2011

1. University of Hawaii, February.
2. University of Washington Department of Applied Mathematics, February

2010

1. University of British Columbia, March.
2. Southern Methodist University, January.

2009

1. American University, May.
2. University of Washington Foster Business School, April.

2008

1. University of Chicago Business School, May.

2007

1. University of California Davis, October.

2006

1. Michigan State University, September.

2005

1. Universidade de São Paulo (USP), Department of Statistics, August.
2. University of Chicago Graduate School of Business, April.

2004

1. Seattle University, November.
2. Brown University, October.
3. Johns Hopkins University, August.
4. University of Washington, Computation Finance Seminar, May.
5. University of British Columbia, March.
6. Swiss Federal Technical University (ETH), January.



2003.

1. University of Washington CSSS seminar, June.
2. Three day work shop on the econometrics of structural change presented at CEMAPRE, Instituto Superior de Economia e Gestão, Lisbon, Portugal, April.
3. University of the Algarve, April.
4. UC Berkeley, March.

2002

1. Cambridge University, October.
2. Oxford University, October.
3. University of Amsterdam, October.
4. Erasmus University Rotterdam, October.

2001

1. University of Houston, February.
2. Rice University, February.
3. University of Montreal, November.

2000

1. The Federal Reserve Bank of New York, November.
2. University of Alberta, October.
3. University of Calgary, October
4. San Francisco Federal Reserve Bank, October.
5. Washington State University, September.
6. University of California Davis, April.
7. Northwestern University, May 2000.
8. University of Illinois at Urbana-Champaign, May.
9. New York Federal Reserve Bank, February.

1999

1. Vanderbilt University, November.
2. University of Amsterdam, September.
3. University of Groningen, September

1998

1. University of British Columbia, October.
2. University of Victoria, November.
3. University of California San Diego, March.
4. University of California Riverside, March.
5. University of Washington, Business School, October.
6. University of California Los Angeles, March.

1997

1. Seattle University, February.
2. Erasums University Rotterdam, June.
3. University of Victoria, March.
4. University of Washington (statistics dept), February.
5. University of Montreal, November.
6. University of California Los Angeles, April.

1996

1. University of Michigan, November.
2. University of California Santa Cruz, May.
3. Seattle University, April.

1993

1. University of Washington, March.
2. Indiana University, March.
3. Seattle, University.
4. University of Virginia, February.
5. Texas A&M University, February.
6. George Mason University, February.
7. Rutgers University, February.

### Grants Awarded

2006	Center for Statistics in the Social Sciences Seed Grant (Thomas Richardson, co-PI)
2003	NSF Grant SBIR Phase II DMI-0132076 (replaced Jiahui Wang as P.I.). Next Generation Component Software for Simulation-Based Econometric Inference.
2002	Royalty Research Fund, University of Washington
2002-06	Gary Waterman Distinguished Scholar (5 years)
1997-98	NSF Grant SBR-9711301 (with Charles Nelson and Richard Startz) . Improved Inference in Instrumental Variables Regression with Weak Instruments.
1996	Mentor Award, University of Washington.
1994-95	Royalty Research Fund, University of Washington.
1993-94	Graduate Research Fund, University of Washington.

### Committees and Service to the University of Washington

**Department of Economics:** Director of Outreach, 2011-2012, 2006. Associate Chair, 2012-2013, 2011-2012, 2003-2005. Graduate committee, 2000-2001. Undergraduate Committee, 2012-2013, 2011-2012. Executive committee, 2012-2013, 2000-2005. Chair Search committee, 2000-2001 and 2006. Econometric Recruiting Committee: 2013-2014, 2012-2013, 2011-2012. Productivity committee, 2000-2001; 2004-2005. Technology committee 2001-2003. Development committee, 2001-present.

**University of Washington:** Co-Director MS Program in Computational Finance & Risk Management (CFRM). 2012-2016. Social Sciences Online Degree Program Development Committee, 2012-2013. Center for Statistics in the Social Sciences (CSSS) Executive Committee, 2008-present. Royalty Research Fund Review Committee, 2004 –2006. University of Washington Tacoma Business School Review Committee (chair), 2006; Faculty Council on University Libraries, 1996-1998. Arts and Sciences UIF review committee, 2000-2001. Faculty Council on Education Technology, 2001-2003.

## Graduate Student Supervision and Placement

### Graduation Year

1995

1. Arthur Gresh (chair), UBS Global Asset Management, London.

1996

1. Ian McKinnon,

1997

1. Jiahui Wang (chair), Barclays Global Investors, San Francisco.

1998

1. Thomas MacLean
2. Christian Murray, Associate Professor, University of Houston.

1999

1. Idanna Kaplan, Vice President, Brown Brothers, New York.
2. Bret MacKay, Assistant Professor, Brigham Young University

2000

1. Max Chen (chair).
2. Ming Lo, Associate Professor, St. Cloud University, Minnesota.
3. Steve Manson (chair), Vice President, Franklin Templeton Fixed Income.
4. James Morley, Associate Professor, Washington University in St. Louis.
5. Jeremy Piger, Associate Professor, University of Oregon.
6. George Sakoulis, Director, Numeric Investors, Boston.
7. Sweta Saxena, Assistant Professor, GSPIA, University of Pittsburgh

2001

1. Jaechul Chang (chair), Samsung Corporation, Korea.
2. Juan Cruces, Assistant Professor, Univ. de San Andres, Argentina.
3. Hyun Jung Jeon
4. Steve Yang, Economist, U.S. Department of State.

2002

1. Arabinda Basistha, Assistant Professor, West Virginia Tech University.
2. Kyongwook Choi (chair), Associate Professor, Ohio University.
3. Srobona Mitra, International Monetary Fund, Washington DC.

2003

1. Jinhoe Bae
2. Yi-Chi Chen (chair), Assistant Professor, National Cheng Kung University, Taiwan.
3. Chung-Han Kim
4. Ho-Jin Lee (chair), Senior Economist, Caxton, New York.

2004

1. Yun-Yeong Kim (chair), Economist, Bank of Korea.
2. Quanghai Li

2005

1. Bingchen Yan (chair), Barclays Global Investors, San Francisco.
2. Clarise Messemer, Portland Power Authority, Portland.
3. Ian Lange, Environmental Protection Agency, Washington DC.
4. Kishor Narayan, Assistant Professor, Texas Tech University, San Antonio.

2006

1. Ying Gu (chair), Vice President, Bear Sterns, New York.
2. Erika Guylas, Assistant Professor, Trinity College, San Antonio.
3. Kum Hwa Oh (chair), Economist, Bank of Korea.
4. Ekatrina Stepanova, Economist, Fanny Mae.
5. Bovorn Vichiansin (chair), Consultant, Deloitte-Touche, New York.
6. William Yu (chair), Assistant Professor, Winona State University, Winona, MN.
7. Frederick Chen (chair), Economist, KPMG, Palo Alto, CA.
8. David Reich

2007

1. Drew Creal (chair). Postdoctoral research fellow, Free University Amsterdam
2. Daisuke Nagakura (chair). Research Fellow, Institute for Monetary and Economic Studies, Bank of Japan.
3. Harrison Fell. Research Associate. Resources for the Future.
4. Jun Ma. Assistant Professor, University of Alabama.
5. Ceyder Oner. Research Associate, International Monetary Fund.
6. Bruce Wang. Associate. Goldman Sachs, New York.

2008

1. Saraswata Chaudhuri (chair). Associate Professor, McGill University.
2. Yunmi Kim. Assistant Professor, University of Mantoba.
3. Nina Sidneva (chair). Principal Economist, Seattle City Light.
4. Scott Payseur (chair). Economist. UBS, New York.

2009

1. Drew Creal (chair). Assistant Professor, Graduate School of Business, University of Chicago.
2. Lai-Chuan Tsai. Assistant Professor, WISE in Xiamen University, China.
3. Peter Fuleky (chair). Associate Professor, Department of Economics, University of Hawaii.

2010

1. Sebastian Fossati (chair), Associate Professor, University of Alberta, Canada.

2011

1. Krisztina Nagy, Lecturer, Pacific Lutheran University.
2. Cherl Hyun (Lucas) Kim (chair), POSCO Research Institute.

2012

1. Jee-Young Lee (chair), Economist, Russell Investments.
2. Brian Donhauser (chair), Economist at Amazon.

2013

1. Ercument Cahan (chair), Economist, Bloomberg
2. Celine Sun (chair), Economist and Director of Research, Wealthfront.

2014

1. Clark Lundberg (chair), Assistant Professor, San Diego State University
2. Emre Ayre (chair), Assistant Professor, Lund University.
3. Xuyang Ma (chair), Economist, Panagora Asset Management
4. Joseph Saenz (co-chair), Economist, University of Washington Endowment
5. Jaeho Kim, Assistant Professor, University of Oklahoma
6. Ranganai Gwati
7. Edgar Luna

2015

1. Yi-an Chen (chair), Economist at Amazon.
2. Javier Pereira (chair). Assistant Professor, Hamilton College.
3. Kaihua Deng (chair). Assistant Professor Hanqing Renmin University.
4. Sayed Galib Sultan (chair). Economist, State Street.
5. Sora Chon
6. Seojin Lee

2017

1. Wan-Jun Hsu (chair), Senior Economist, Central Bank of the Republic of China
2. Thomas Fillibeen, Senior Economist at Amazon

2018

1. Anthony Sanford, Post Doc at University of Maryland
2. Sangeetha Chaudhuri (co-chair with Doug Martin). Economist, Russell Investments.
3. Kara Ng (chair). Economist, Russell Investments.

2019

1. Jingyi Ren, Economist at Microsoft
2. Phil Sonn, Economist, Moodys Analytics

Current Economics Students

1. Puspak Sarkar (co-chair with Yu-Chin Chen)
2. Shikha Agarwal (co-chair with Thomas Gilbert)
3. Ryan Mitchell

*Business School:*

Sergei Barna, Aaron P. Burt, Chun-Wei Chang, Yen-Cheng Chang, Zhiyao Chen, Atsuchi Chino, Andrew Detzel, Joon Ho Kim, Laurel Franzen, Todd Kravet, John Byong Tek Lee, Brian McCulloch, Shamin Mashruwala, Frank Rothaermel, Douglas Rolf, Chun-Weo Sabatini, Timothy Simin, Joseph Tanimura, Eric Wirley, Artimiza Woodgate, Yeqin Zeng.

*Computer Science:* William Portnoy

*Industrial and Systems Engineering:* Huimin Xiong.

*Forestry:* Ismariah Ahmad.

*Public Affairs:* Lily Hsueh.

*Statistics:* Heiko Bailer, Xin Chen, Chris Green, Yindeng Jiang, Tatiana Maravina, Xiaoyue Niu, Shuguang Song, Shengyu Zhang, Minfeng Zhu.

## Membership, Activities, Offices Held in Professional Societies

**Associate Editor:** *Studies in Nonlinear Dynamics and Econometrics*: 2000-2005  
*Journal of Business and Economic Statistics*: 2000-2002;

**Special Guest Editor:** *Computational Statistics and Data Analysis*, Special Issue on Statistical/Computational Methods in Finance, 2006.

**Editor,** Springer-Verlag Book Series Statistics and Econometrics for Finance, 2011-present.

**Member:** American Economics Association, American Finance Association, Econometric Society and American Statistical Association

## Other Professional Activities

**Referee:** *American Economic Review*, *Biometrika*, *Communications in Statistics*, *Computational Statistics and Data Analysis*, *Economic Inquiry*, *Econometric Reviews*, *Econometric Theory*, *Econometrica*, *Econometrics Journal*, *Finance Research Letters*, *International Economic Review*, *Journal of the American Statistical Association*, *Journal of Applied Econometrics*, *Journal of Business and Economic Statistics*, *Journal of Economic Dynamics and Control*, *Journal of Econometrics*, *Journal of Empirical Finance*, *Journal of Financial Econometrics*, *Journal of Financial and Quantitative Analysis*, *Journal of International Economics*, *Journal of International Money and Finance*, *Macroeconomic Dynamics*, *Nature*, *Oxford Bulletin of Economics and Statistics*, *Quarterly Journal of Business and Economics*, *Review of Economics and Statistics*, *Studies in Nonlinear Dynamics and Econometrics* and *The Review of Economic Studies*.

**Grant Proposal Reviewer:** National Science Foundation.

**Textbook Reviewer:** Addison Wesley, Cognito Learning Media, Sage, Southwestern College Publishing and John Wiles & Sons, Springer-Verlag.

## Awards

“Evaluating the Impact of Environmental Policy on the Trend Behavior of U.S. Emissions of Nitrogen Oxides and Volatile Organic Compounds”, with Nina Sidneva, was awarded the *Rollie Lamberson Medal* for best paper published in *Natural Resource Modeling* from 2014 – 2016.

Robert Richards Chaired Professor of Economics (2010 – present)

"Further Evidence on the Great Crash, the Oil Price Shock and the Unit Root Hypothesis," with Donald W.K. Andrews, *Journal of Business & Economic Statistics* (Vol. 10, No. 3, July 1992) was selected as one of the twenty best papers published in the *Journal of Business and Economic Statistics*.

Gary Waterman Distinguished Scholar (2002 – 2009)

University of Washington, Department of Economics: Henry T. Buechel Award for Outstanding Teaching (2006)

## **Software Development**

S-PLUS modules S+DiscreteChoice and S+FinMetrics. R packages factorAnalytics, highFrequency, IntroCompFinR, MFSTSR, PerformanceAnalytics, robust.