

# MASAYUKI HIRUKAWA

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## Personal

- Citizenship: Japan (Permanent Address: Handa, Aichi, Japan).
- Date of Birth: 7 October 1965.
- Marital Status: Married, 1 child.

## Education

- Ph.D. in Economics, University of Wisconsin-Madison, Madison, WI, USA, August 2004.
  - Doctoral Dissertation:
    - Title: “Heteroskedasticity and Autocorrelation Consistent Covariance Matrix Estimation.”
    - Reading Committee: Bruce E. Hansen (Chair); Gautam Tripathi; Kenneth D. West.
  - Minor: Statistics.
- M.S. in Economics, University of Wisconsin-Madison, Madison, WI, USA, December 2000.
- M.S. in Industrial Administration, Carnegie Mellon University, Pittsburgh, PA, USA, May 1997.
- B.A. in Economics, University of Tokyo, Tokyo, Japan, March 1989.

## Academic Positions

- Professor, Faculty of Economics, Setsunan University, Neyagawa, Osaka, Japan, September 2010 - present.
- Assistant Professor, Department of Economics, Northern Illinois University, DeKalb, IL, USA, August 2007 - May 2010.
- Assistant Professor, Department of Economics, Concordia University, Montréal, QC, Canada, July 2004 - May 2007.

## Visiting and Adjunct Positions

- Visiting Fellow, Centre Interuniversitaire de Recherche en Économie Quantitative (CIREQ), September 2008.
- Short-Term Visitor, Center for International Research on the Japanese Economy (CIRJE), University of Tokyo, June 2006 and May 2008.
- Adjunct Professor, Department of Economics, Concordia University, June 2007 - April 2008.
- Research Fellow, Centre Interuniversitaire de Recherche en Économie Quantitative (CIREQ), April 2006 - April 2008.

## Professional Services

- Reviewer for Grant-in-Aid for Scientific Research (Field: Economic Statistics), Japan Society for the Promotion of Science, December 2015 - November 2016 and December 2016 - November 2017.

## Research Interests

- Fields of Specialization: Theoretical and Applied Econometrics; Statistics.
- Research Interests: Nonparametric Econometrics; Time Series Econometrics; Econometrics of Data Combination; Generalized Method of Moments; Generalized Empirical Likelihood; Simulation-Based Estimation; Indirect Inference; Cointegration; Empirical Analysis on Macroeconomics, Corporate Finance, Investment, and Industrial Organization.

## Books

- [1] *Asymmetric Kernel Smoothing: Theory and Applications in Economics and Finance*, JSS Research Series in Statistics, 2018, Heidelberg: Springer, ISBN: 978-981-10-5465-5.

## Refereed Journal Articles

- [1] “Nonparametric Estimation and Testing on Discontinuity of Positive Supported Densities: A Kernel Truncation Approach,” with Benedikt Funke, *Econometrics and Statistics*, forthcoming.
- [2] “Consistent Estimation of Linear Regression Models Using Matched Data,” with Artem Prokhorov, *Journal of Econometrics*, forthcoming.
- [3] “Functional-Coefficient Cointegration Models in the Presence of Deterministic Trends,” with Mari Sakudo, *Econometric Reviews*, forthcoming.
- [4] “Testing Symmetry of Unknown Densities via Smoothing with the Generalized Gamma Kernels,” with Mari Sakudo, *Econometrics*, Volume 4, Issue 2, June 2016, Article No. 28.
- [5] “Reexamination of the Robustness of the Fama-French Three-Factor Model,” with Jiro Hodoshima, *Far East Journal of Theoretical Statistics*, Volume 52, Issue 3, May 2016, pp. 215-234.
- [6] “Corrigendum to “Nonparametric Multiplicative Bias Correction for Kernel-Type Density Estimation on the Unit Interval” [Comput. Statist. Data Anal. 54 (2010) 473-495],” *Computational Statistics & Data Analysis*, Volume 95, March 2016, pp. 240-242.
- [7] “Family of the Generalised Gamma Kernels: A Generator of Asymmetric Kernels for Nonnegative Data,” with Mari Sakudo, *Journal of Nonparametric Statistics*, Volume 27, Issue 1, January 2015, pp. 41-63.
- [8] “Nonnegative Bias Reduction Methods for Density Estimation Using Asymmetric Kernels,” with Mari Sakudo, *Computational Statistics & Data Analysis*, Volume 75, July 2014, pp. 112-123.
- [9] “Nonparametric Estimation of Scalar Diffusion Models of Interest Rates Using Asymmetric Kernels,” with Nikolay Gospodinov, *Journal of Empirical Finance*, Volume 19, Issue 4, September 2012, pp. 595-609.
- [10] “Venture Capital and Innovation: Which Is First?” with Masako Ueda, *Pacific Economic Review*, Volume 16, Issue 4, October 2011, pp. 421-465.
- [11] “How Useful Is Yet Another Data-Driven Bandwidth in Long-Run Variance Estimation?: A Simulation Study on Cointegrating Regressions,” *Economics Letters*, Volume 111, Issue 2, May 2011, pp. 170-172.
- [12] “A Two-Stage Plug-In Bandwidth Selection and Its Implementation for Covariance Estimation,” *Econometric Theory*, Volume 26, Issue 3, June 2010, pp. 710-743.
- [13] “Nonparametric Multiplicative Bias Correction for Kernel-Type Density Estimation on the Unit Interval,” *Computational Statistics & Data Analysis*, Volume 54, Issue 2, February 2010, pp. 473-495.
- [14] “A Modified Nonparametric Prewhitened Covariance Estimator,” *Journal of Time Series Analysis*, Volume 27, Issue 3, May 2006, pp. 441-476.

## Non-Refereed Journal Articles

- [1] “Independence of the Sample Mean and Variance for Normal Distributions: A Proof by Induction,” *Setsunan Economic Review*, Volume 5, Issues 1-2, March 2015, pp. 1-5.
- [2] “Stabilizing a GMM Bootstrap for Time Series: A Simulation Study,” *Setsunan Economic Review*, Volume 1, Issues 1-2, March 2011, pp. 19-37.
- [3] “The Tenuous Relationship of Venture Capital and Innovation,” with Masako Ueda, *VoxEU.org*, 30 January 2009.

## Working Papers

- “Two-Sample Estimation as an Alternative to Instrumental Variable Estimation in the Presence of Omitted Variables,” with Irina Murtazashvili and Artem Prokhorov, January 2018.
- “Bias Correction for Asymmetric Kernel Density Estimation with a Parametric Start,” with Mari Sakudo, January 2018.
- “Two-Sample Estimation of Varying Coefficient Models via Nearest Neighbor Matching,” with Artem Prokhorov and Yajing Zhu, July 2017.
- “Venture Capital and Industrial “Innovation”,” with Masako Ueda, June 2013.

## Work In Progress

- “Skewing Methods for Asymmetric Kernel Regression Estimation,” with Benedikt Funke.
- “Consistent Specification Testing for Regression Models via the Piecewise Local Linear Regression Estimation,” with Anurag N. Banerjee.
- “Bootstrap Inference on Matched-Sample Indirect Inference Estimation.”
- “Two-Sample Estimation of Quantile Regression Models.”
- “Alternative Approximations to Nonparametric Estimators for Functional-Coefficient Cointegration Models with Persistent Errors and/or Transition Variables.”

## Conference Presentations

- 2017: [1] 11<sup>th</sup> International Conference on Computational and Financial Econometrics (Senate House and Birkbeck College, University of London, London, UK) [December].  
[2] 4<sup>th</sup> Conference of the International Association for Applied Econometrics (Hotel Emisia, Sapporo, Japan) [June].  
[3] 1<sup>st</sup> International Conference on Econometrics and Statistics (Hong Kong University of Science and Technology, Hong Kong) [June].  
[4] 18<sup>th</sup> Annual Meeting on Nonparametric Data Analysis and Bayesian Statistics (Keio University, Tokyo, Japan) [March].  
[5] Symposium on Current Issues in Statistical Science (Kanazawa University, Kanazawa, Ishikawa, Japan) [January].
- 2016: [6] 10<sup>th</sup> International Conference on Computational and Financial Econometrics (University of Seville, Seville, Spain) [December].  
[7] Asian Meeting of the Econometric Society 2016 (Doshisha University, Kyoto, Japan) [August].  
[8] 4<sup>th</sup> Institute of Mathematical Statistics Asia Pacific Rim Meeting (Chinese University of Hong Kong, Hong Kong) [June].  
[9] CORE@50 Conference (Université Catholique de Louvain, Louvain-la-Neuve, Belgium) [May].
- 2015: [10] 16<sup>th</sup> Annual Meeting on Nonparametric Data Analysis and Bayesian Statistics (Keio University, Yokohama, Japan) [March].
- 2014: [11] 68<sup>th</sup> European Meeting of the Econometric Society (Toulouse School of Economics, Toulouse, France) [August].  
[12] Econometric Society Australasian Meeting 2014 (Hotel Grand Chancellor, Hobart, TAS, Australia) [July].  
[13] Asian Meeting of the Econometric Society 2014 (Academia Sinica, Taipei, Taiwan) [June].  
[14] 15<sup>th</sup> Annual Meeting on Nonparametric Data Analysis and Bayesian Statistics (Keio University, Tokyo, Japan) [March].  
[15] 24<sup>th</sup> New Zealand Econometric Study Group Meeting (University of Waikato, Hamilton, New Zealand) [February].  
[16] Kansai Econometric Society Annual Meeting 2013 (Kyoto University, Kyoto, Japan) [January].
- 2013: [17] International Symposium on New Development in Statistical Science (Kanazawa University, Kanazawa, Ishikawa, Japan) [November].  
[18] 23<sup>rd</sup> New Zealand Econometric Study Group Meeting (University of Auckland, Auckland, New Zealand) [February].
- 2012: [19] Asian Meeting of the Econometric Society 2012 (University of Delhi, Delhi, India) [December].  
[20] Summer Workshop on Economic Theory 2012 (Otaru University of Commerce, Otaru, Hokkaido, Japan) [August].

- 2011: [21] International Symposium on Recent Development in Statistics, Empirical Finance and Econometrics (Kyoto University, Kyoto, Japan) [November].
- [22] 21<sup>st</sup> New Zealand Econometric Study Group Meeting (University of Otago, Dunedin, New Zealand) [February].
- 2008: [23] Southern Economic Association 78<sup>th</sup> Annual Meetings (Grand Hyatt Hotel, Washington, DC, USA) [November].
- [24] 25<sup>th</sup> Canadian Econometrics Study Group Conference (Hôtel de l'Institut, Montréal, QC, Canada) [September].
- 2007: [25] Midwest Econometric Group 17<sup>th</sup> Annual Meeting (Saint Louis University, St. Louis, MO, USA) [October].
- 2006: [26] Midwest Econometric Group 16<sup>th</sup> Annual Meeting (University of Cincinnati, Cincinnati, OH, USA) [October].
- 2005: [27] 1<sup>st</sup> CIREQ Time Series Conference (Hôtel de l'Institut, Montréal, QC, Canada) [December].
- [28] 22<sup>nd</sup> Canadian Econometrics Study Group Conference (Simon Fraser University, Vancouver, BC, Canada) [October].
- [29] Midwest Econometric Group 15<sup>th</sup> Annual Meeting (Southern Illinois University, Carbondale, IL, USA) [October].
- [30] Canadian Economics Association 39<sup>th</sup> Annual Meetings (McMaster University, Hamilton, ON, Canada) [May].

### **Seminar Presentations**

- 2016: [1] University of Tokyo, Graduate School of Economics (Tokyo, Japan) [October].
- 2015: [2] Development Bank of Japan, Research Institute of Capital Formation (Tokyo, Japan) [May].
- 2014: [3] University of Sydney, Discipline of Business Analytics, Business School (Sydney, NSW, Australia) [February].
- 2013: [4] University of Sydney, Discipline of Business Analytics, Business School (Sydney, NSW, Australia) [March].
- 2012: [5] Kyoto University, Institute of Economic Research (Kyoto, Japan) [December].
- [6] University of Tokyo, Graduate School of Economics (Tokyo, Japan) [November].
- [7] Osaka University, Graduate School of Economics (Toyonaka, Osaka, Japan) [July].
- [8] Development Bank of Japan, Research Institute of Capital Formation (Tokyo, Japan) [February].
- 2011: [9] Queen's University, Department of Economics (Kingston, ON, Canada) [August].
- 2010: [10] Queen's University, Department of Economics (Kingston, ON, Canada) [May].
- 2009: [11] Purdue University, Department of Economics (West Lafayette, IN, USA) [March].
- [12] Loyola University, Department of Economics (Chicago, IL, USA) [February].
- [13] DePaul University, Department of Economics (Chicago, IL, USA) [February].
- 2008: [14] Osaka University, Center for the Study of Finance and Insurance (Toyonaka, Osaka, Japan) [June].
- [15] Kyoto University, Institute of Economic Research (Kyoto, Japan) [June].
- [16] Kobe University, Graduate School of Economics (Kobe, Japan) [June].
- [17] Nagoya University, Graduate School of Economics (Nagoya, Japan) [May].
- [18] Nagoya City University, Graduate School of Economics (Nagoya, Japan) [May].
- [19] University of Tokyo, Graduate School of Economics (Tokyo, Japan) [May].
- [20] Northern Illinois University, Department of Economics (DeKalb, IL, USA) [March].
- 2007: [21] Northern Illinois University, Department of Economics (DeKalb, IL, USA) [January].
- 2006: [22] Carleton University, Department of Economics (Ottawa, ON, Canada) [December].
- [23] University of Tokyo, Graduate School of Economics (Tokyo, Japan) [June].
- [24] Hitotsubashi University, Graduate School of Economics (Kunitachi, Tokyo, Japan) [June].
- [25] Queen's University, Department of Economics (Kingston, ON, Canada) [April].

- 2004: [26] Montreal Econometrics Workshop (Concordia University, Montréal, QC, Canada) [November].  
[27] Concordia University, Department of Economics (Montréal, QC, Canada) [January].  
[28] Oregon State University, Department of Economics (Corvallis, OR, USA) [January].
- 2003: [29] University of Wisconsin-Madison, Department of Economics (Madison, WI, USA) [November].
- 2002: [30] University of Wisconsin-Madison, Department of Economics (Madison, WI, USA) [November].

### Other Conference Participations

- Program Committee Member:
  - 2<sup>nd</sup> CIREQ Time Series Conference (Hôtel de l'Institut, Montréal, QC, Canada), December 2006.
- Session Chair:
  - "Time Series Models 1," Asian Meeting of the Econometric Society 2012 (University of Delhi, Delhi, India), December 2012.
  - "Econometrics of Market Microstructure," Quantitative Finance 2011 (University of Tokyo, Tokyo, Japan), September 2011.
  - "Nonparametric Methods in Time Series Analysis I," Midwest Econometric Group 17<sup>th</sup> Annual Meeting (Saint Louis University, St. Louis, MO, USA), October 2007.
  - "Asset Pricing," Canadian Economics Association 39<sup>th</sup> Annual Meetings (McMaster University, Hamilton, ON, Canada), May 2005.
  - "Portfolio Choice," 4<sup>th</sup> CIREQ-CIRANO Conference on Financial Econometrics (Hôtel de l'Institut, Montréal, QC, Canada), May 2005.
- Discussant (The speaker is underlined):
  - Doko Tchatoka, Sabro Firmin, "Instrument Endogeneity and Inference in Possibly Unidentified Structural Equations," 24<sup>th</sup> New Zealand Econometric Study Group Meeting (University of Waikato, Hamilton, New Zealand), February 2014.
  - Giles, David E., Hui Feng, and Ryan T. Godwin, "Bias-Corrected Maximum Likelihood Estimation of the Parameters of the Generalized Pareto Distribution," 23<sup>rd</sup> New Zealand Econometric Study Group Meeting (University of Auckland, Auckland, New Zealand), February 2013.
  - Cho, Jin Seo, Isao Ishida, and Halbert White, "Revisiting Tests for Neglected Nonlinearity Using Artificial Neural Networks," 21<sup>st</sup> New Zealand Econometric Study Group Meeting (University of Otago, Dunedin, New Zealand), February 2011.
  - Cai, Zongwu, Qi Li, and Joon Y. Park, "Functional-Coefficient Models for Nonstationary Time Series Data," Southern Economic Association 78<sup>th</sup> Annual Meetings (Grand Hyatt Hotel, Washington, DC, USA), November 2008.
  - Hu, Ling, and Robert de Jong, "Nonstationary Censored Regression," 23<sup>rd</sup> Canadian Econometrics Study Group Conference (Marriott Niagara Falls Hotel, Niagara Falls, ON, Canada), October 2006.
  - Ren, Yu, and Katsumi Shimotsu, "Specification Test Based on the Hansen-Jagannathan Distance with Good Small Sample Properties," Canadian Economics Association 40<sup>th</sup> Annual Meetings (Concordia University, Montréal, QC, Canada), May 2006.
  - Rombouts, Jeroen V. K., and Marno Verbeek, "Evaluating Portfolio Value-at-Risk Using Semi-Parametric GARCH Models," Canadian Economics Association 39<sup>th</sup> Annual Meetings (McMaster University, Hamilton, ON, Canada), May 2005.

### Research Grants

- External Funding:
  - Grant-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science, "Improvement and Development of Nonparametric and Semiparametric Methods in Applied Econometrics" (grant number 15K03405), April 2015 - March 2019, JPY3,500,000 in total [ongoing].
  - Grant-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science, "Smoothing Techniques and Their Implementations in Time Series Econometrics" (grant number 23530259), May 2011 - March 2015, JPY3,800,000 in total [complete].

- Standard Research Grants Program, Social Sciences and Humanities Research Council of Canada (SSHRC), “Improving Finite Sample Performances of GMM” (grant number 410-2007-2071), March 2007 - March 2010, C\$45,000.00 in total [returned due to move to USA].
- Programme d’Établissement de Nouveaux Professeurs-Chercheurs, Fonds Québécois de la Recherche sur la Société et la Culture (FQRSC), « Deux améliorations dans les propriétés des échantillons finis estimés par la méthode des moments generalizes » (numéro de dossier 114142), April 2006 - March 2009, C\$38,192.00 in total [returned due to move to USA].
- Internal Funding:
  - College of Liberal Arts & Sciences Summer Research & Artistry Grant, Northern Illinois University, May - June 2008, US\$3,000.00 [complete].
  - General Research Fund, Concordia University, February - December 2005, C\$3,525.60 in total [complete].
  - Faculty Research Development Program, Concordia University, June 2004 - May 2007, C\$15,000.00 in total [complete].

### Awards

- Full Scholarship for Graduate Study in Business, Chubu Electric Power Co., Inc. (employer), June 1995 - May 1997.
- 8<sup>th</sup> Annual *Ouchi Hyoe* Award (best economic thesis), Faculty of Economics, University of Tokyo, March 1989.

### Referee and Review Activities

- Academic Journals:
  - *African Economic Research Consortium (AERC) Research Papers* (1).
  - *African Journal of Agricultural Research* (1).
  - *Annals of Operations Research* (3).
  - *Canadian Journal of Statistics* (1).
  - *Computational Statistics & Data Analysis* (3).
  - *Econometric Reviews* (3).
  - *Econometric Theory* (5).
  - *Econometrics* (2).
  - *Economic Modelling* (9).
  - *Electronic Journal of Statistics* (3).
  - *Emerging Markets Finance and Trade* (1).
  - *Far East Journal of Theoretical Statistics* (1).
  - *IEEE Transactions on Systems, Man and Cybernetics - Part B* (1).
  - *Journal of Applied Mathematics* (1).
  - *Journal of Business & Economic Statistics* (1).
  - *Journal of International Development* (1).
  - *Journal of Money, Credit, and Banking* (13).
  - *Journal of Statistical Computation and Simulation* (2).
  - *Journal of Statistical Theory and Practice* (1).
  - *Journal of Testing and Evaluation* (1).
  - *Journal of the Franklin Institute* (1).
  - *Journal of the Korean Statistical Society* (6).
  - *Journal of Time Series Econometrics* (1).
  - *Pacific Economic Review* (2).
  - *Review of Economics and Statistics* (1).
  - *Science China Mathematics* (1).
  - *Stat* (2).
  - *Statistical Methods & Applications* (1).
  - *Statistics* (1).
  - *Statistics & Probability Letters* (2).

- Book Chapters:
  - *The New Palgrave Dictionary of Economics*, 2<sup>nd</sup> Edition/*Macroeconomics and Time Series Analysis* (Chapter: “Heteroskedasticity and Autocorrelation Corrections” by Kenneth D. West).
- Research Grants:
  - *Grant-in-Aid for Scientific Research* (120).
  - *Social Sciences and Humanities Research Council of Canada (SSHRC)* (1).
- Doctoral Dissertations:
  - “*Topics in Dependence Modelling*” by Fujie Xia (*University of Sydney*).

### Professional Memberships

- American Economic Association, May 1997 - present.
- American Statistical Association, January 2000 - present.
- Econometric Society, January 2000 - present.
- International Association for Applied Econometrics, October 2017 - present.
- Japan Statistical Society, April 2006 - present.

### Teaching and Research Experiences

- Instructor:
  - Faculty of Economics, Setsunan University, September 2010 - present:
    - Undergraduate: *Mathematics for Economists; Microeconomics I; Macroeconomics I; Statistics; Econometrics; Industrial Organization; Modern Finance.*
  - Department of Economics, Northern Illinois University, August 2007 - May 2010:
    - Undergraduate: *Principles of Microeconomics; Intermediate Microeconomics.*
    - Graduate: *Econometrics I; Econometrics II; Seminar in Quantitative Economics.*
  - Department of Economics, Concordia University, August 2004 - May 2007:
    - Undergraduate: *Statistical Methods II; Econometrics I; Applied Econometrics.*
    - Graduate: *Financial Economics II; Econometric Theory II.*
- Teaching Assistant:
  - Department of Economics, University of Wisconsin-Madison, August 2000 - May 2001 and January - May 2004:
    - Undergraduate: *Principles of Microeconomics; Introductory Econometrics.*
    - Graduate: *Time Series Econometrics.*
  - Department of Finance, Investment and Banking, School of Business, University of Wisconsin-Madison, August 2002 - May 2004:
    - Undergraduate: *Entrepreneurial Finance.*
    - Graduate: *Entrepreneurial Finance; Theory of Finance I.*
- Project Assistant:
  - Department of Finance, Investment and Banking, School of Business, University of Wisconsin-Madison, for Masako Ueda, May - August 2003.
  - Institute for Research on Poverty, University of Wisconsin-Madison, for Robert H. Haveman, Karen C. Holden, and Barbara L. Wolfe, September 2001 - June 2002.

### University Services

- Member, Committee of Entrance Exam Questions (Subject: Mathematics), Setsunan University, April 2011 - present.
- Member, Editorial Board of *Setsunan Economic Review* (in-house journal), Faculty of Economics, Setsunan University, September 2010 - March 2012.
- Member, Committee of Initial Teacher Certificate, Northern Illinois University, August 2009 - May 2010.
- Member, Graduate Program Committee, Department of Economics, Concordia University, June 2005 - May 2007.

### **Language Skills**

- Japanese (fluent/native speaker).
- English (fluent).
- Mandarin Chinese (intermediate).

### **Other Experiences**

- Chubu Electric Power Co., Inc. (Headquarters, Nagoya, Japan), August 1991 - July 1999.
  - Senior Staff of Budget Section, Finance & Accounting Department, October 1997 - July 1999. (Responsibilities: planning and controlling annual budget of plant and equipment investment and maintenance.)
  - Senior Staff of Finance Section, Finance & Accounting Department, May - October 1997. (Responsibilities: making quarterly and monthly fund-raising plans.)
  - Company-sponsored graduate study at Carnegie Mellon University, June 1995 - May 1997.
  - Staff Member of Finance Section, Finance & Accounting Department, August 1991 - June 1995. (Responsibilities: issuing domestic and Euro bonds and commercial papers by negotiating agreements and other documents with investment bankers, lawyers, and certified public accountants, and implementing financial risk-hedging concerned with the issues.)
- Chubu Electric Power Co., Inc. (Hamamatsu Customer Service Office, Hamamatsu, Japan), April 1989 - July 1991.
  - Staff Member of Customer Service I, April 1989 - July 1991. (Responsibilities: writing and examining customer contracts on 200V or less electric power usage.)

### **Other Interests**

- Kendo (Ranking: 5 dan).
- Photography.

*Last update: 31 January 2018.*