

Xiao Huang

CONTACT INFORMATION

Department of Economics, Finance and Quantitative Analysis
Kennesaw State University
560 Parliament Garden Way NW, M.D. #403
Kennesaw, GA 30144
Office Phone: (470) 578-6318
Email: xhuang3@kennesaw.edu
Personal website: <https://xhuang.netlify.com/>

EDUCATION

Ph.D. in Economics, University of California, Riverside 6/2005

B.A. in Economics, Fudan University, China 6/2000

PROFESSIONAL EXPERIENCE

8/2016 to present	Professor of Economics, Department of Economics, Finance and Quantitative Analysis
8/2011 to 7/2016	Associate Professor of Economics, Department of Economics, Finance and Quantitative Analysis
8/2005 to 7/2011	Assistant Professor of Economics, Department of Economics, Finance and Quantitative Analysis

RESEARCH INTERESTS

Financial econometrics, quantitative portfolio analysis, panel data analysis, continuous-time process modeling, volatility modeling, time series modeling and forecasting, factor models, nonparametric method, statistical learning methods, etc.

PUBLICATIONS

1. “Local Composite Quantile Regression for Regression Discontinuity,” with Zhaoguo Zhan, *Journal of Business & Economic Statistics* 40, pp. 1863-1875, 2022.
2. “Towards Profitability: A Profit-sensitive Multinomial Logistic Regression for Credit Scoring in Peer-to-peer Lending,” with Yan Wang and Xuelei Ni, forthcoming, *Proceedings of 2022 Future Technologies Conference* in the series “Lecture Notes in networks and Systems,” Springer.

3. “Local Composite Quantile Regression Smoothing: Flexible Data Structure and Cross Validation,” with Zhongjian Lin, *Econometric Theory* 37, pp. 613-631, 2021.
4. “Leverage and Asymmetric Volatility: The Firm Level Evidence,” with Jan Ericsson and Stefano Mazzotta. *Journal of Empirical Finance* 38, pp. 1-21, 2016.
5. “Quasi-Maximum Likelihood Estimation of Multivariate Diffusions,” *Studies in Nonlinear Dynamics & Econometrics* vol. 17, pp. 179-197, 2013.
6. “Nonparametric Estimation in Large Panels with Cross Sectional Dependence,” *Econometric Reviews* vol. 32, pp. 754-777, 2013.
7. “Quasi-Maximum Likelihood Estimation of Discretely Observed Diffusions,” *The Econometrics Journal* vol. 14, pp. 241-256, 2011.
8. “Panel Vector Autoregression under Cross Sectional Dependence,” *The Econometrics Journal* vol. 11, pp. 219-243, 2008.
9. “Finite Sample Properties of FGLS Estimator for Random-Effects Model under Nonnormality,” with Aman Ullah, *Contributions to Economic Analysis*, vol. 274 edited by Badi Baltagi, Elsevier B.V. 2006.

WORKING PAPERS

1. “Boosted p-Values for High-Dimensional Vector Autoregression,” submitted.
2. “Lassoed Boosting and Linear Prediction in Equities Market,” submitted.
3. “Applications of Integrated Gradients in Credit Risk Modeling,” with Md Shafiul Alam, Jonathan Boardman, and Matthew Turner, submitted.
4. “Functional-Coefficient Regression Model for Panel Data,” with Zhongjian Lin, submitted.
5. “Does health behavior change after diagnosis?” with Zhaoguo Zhan, submitted.
6. “Integrated Gradients is a Nonlinear Generalization of the Industry Standard Approach to Variable Attribution for Credit Risk Models,” with Jonathan Boardman, Md Shafiul Alam, and Ying Xie.
7. “Dynamic Panels, Cross Sectional Correlation, and Arbitrage in Equities Market.”
8. “Estimation of Multivariate Jump-Diffusions with Strong Approximations.”

SOFTWARE (R packages)

1. rdcqr – estimation in regression discontinuity based on composite quantile regression for local causal analysis. <https://github.com/xhuang20/rdcqr>
2. lboost – lassoed boosting for high-dimensional linear regression. <https://github.com/xhuang20/lboost>
3. boostvar – estimation of standard errors and p-values in high-dimensional vector autoregression for the least-squares boosting method. <https://github.com/xhuang20/boostvar>

PROJECTS

1. Principal Investigator, KSU-Equifax Data Science Lab, 1/2019 to present.
Responsible for
 - 1) Advising and managing a team of Ph.D. and Master students in data science/statistics on designing and implementing statistical learning algorithms for Equifax’s business in risk modeling, marketing, etc.
 - 2) Hiring Ph.D. and Master students for the Lab.
 - 3) Securing annual grant of \$110,000.
2. Principal Investigator, KSU-Emerson Climate Technologies sponsored research lab, 2/2018 to 12/2018. Responsible for modeling and forecasting device time series data and advising and managing Ph.D. students associated with the lab.

PATENTS (pending)

1. Lagged Logistic Regression with Group Lasso for Credit Scoring, with Yan Wang, KSU-Equifax Data Science Lab.
2. Monotonic Recurrent Neural Network for Regulatory Compliant Credit Models, with Jonathan Boardman, KSU-Equifax Data Science Lab.
3. Applications of Integrated Gradients in Credit Risk Modeling, with Md Shafiul Alam, Jonathan Boardman, Jeff Dugger, and Matthew Turner, KSU-Equifax Data Science Lab.

CONSULTING

1. Consultant to asset management company for developing quantitative strategies, 2017-2018.
2. Instructor on Cluster Analysis and Segmentation, 2019 Accenture Southeast Data Science Training Program.

SEMINAR AND CONFERENCE PRESENTATIONS

1. "Functional-Coefficient Regression Model for Panel Data," 16th CFE-CMStatistics International Conference, 12/2022.
2. "Conflicts and Education Expenditure," with Aniruddha Bagchi and Benjamin Scafidi, Coles Research Symposium, 11/2022.
3. "Reliable and Efficient Inference in Regression Discontinuity," 88th Annual Meeting, Southern Economic Association, Washington D.C., 11/2018.
4. "Local Composite Quantile Regression Smoothing: Flexible Data Structure and Cross Validation," presented at the 2018 Econometric Society China Meeting, 6/2018.
5. "Dynamic Panels, Cross Sectional Correlation, and Arbitrage in Equities Market," presented at the 2012 meetings of the Midwest Econometric Group, 9/2012 and Economics Department at Emory University 4/2013. WFA, 3/2016.
6. "Estimation of Multivariate Jump-Diffusions with Strong Approximations," presented at 2011 North America Econometric Society Summer Meeting, 6/2011 and 2010 SETA, Singapore Management University, 4/2010.
7. "Quasi-maximum Likelihood Estimation of Multivariate Diffusions," presented at 2009 meetings of Midwest Econometrics Group, 9/2009.
8. "Quasi-maximum Likelihood Estimation of Discretely Observed Diffusions," presented at 17th SNDE Conference, 4/2009.
9. "Leverage and Asymmetric Volatility: The Firm Level Evidence," with Jan Ericsson and Stefano Mazzotta, presented at the 7th All-Georgia Finance Conference, 10/2007 and 2007 North America Econometric Society Summer Meeting, 6/2007.
10. "Nonparametric Estimation in Large Panel under Cross Sectional Dependence," presented at 2006 North America Econometric Society Summer Meeting, 6/2006.
11. "Panel Vector Autoregression under Cross Sectional Dependence," presented at Department of Economics, SUNY-Albany, 01/2005, Department of Economics, Finance & Quantitative Analysis, KSU, 01/2005, and Department of Economics, University of California, Riverside, 12/2004.
12. "Finite Sample Properties of FGLS Estimator for Random-Effects Model under Nonnormality," with Aman Ullah, presented at School of Economics, Fudan University, 6/2004 and 11th International Conference on Panel Data, 6/2004.

AWARDS AND FELLOWSHIP

School of Data Science and Analytics Ph.D. program Distinguished Contributor Award
2022

Coles College Innovation in Teaching Award, 2019

Coles College Working Paper Best Referee Award, 2018

Coles College of Business Faculty Research Award, 2005, 2006, 2008, 2009, 2012, 2013,
2019

Chancellor's Fellowship, University of California, Riverside, 2000-2004

REFEREE FOR

*Applied Economics Research Bulletin, Econometric Reviews, Empirical Economics,
Journal of Applied Econometrics, Journal of Banking and Economics, Journal of
Business & Economic Statistics, Journal of Econometrics, Journal of Economic
Dynamics and Control, Journal of Financial and Quantitative Analysis, Journal of
Nonparametric Statistics, and Journal of Quantitative Economics*

COURSES TAUGHT AT KENNESAW STATE UNIVERSITY

1. Econ 2200 Principles of Economics - Macroeconomics
2. Econ 4490 Special Topic: Computing Methods for Business Data (R programming class)
3. Econ 4610 Macroeconomics
4. Econ 4710 Econometrics
5. Econ 4750 Multivariate Data Analysis
6. Econ 4760 Business Forecasting
7. Econ 7710 Statistics for Business Analysis (MBA level)
8. Econ 8700 Econometrics and Forecasting Methods (MBA level)
9. [Econ 8900 Special topic: Statistical Learning in Financial Markets](#) (Ph.D. level)
10. DBA 9104 Applied Methodologies in Finance & Accounting (DBA level)
11. Econ 9740 Time Series Analysis (Ph.D. level, Department of Economics, Georgia State University)

DBA and Ph.D. COMMITTEES

1. Yan Wang, Ph.D. candidate in Analytics and Data Science, 9/2019 to 5/2020.
2. Edwin Baidoo, Ph.D. candidate in Analytics and Data Science, 4/2018 to 5/2020.
3. Bogdan Gadidov, Ph.D. candidate in Analytics and Data Science, 6/2019.
4. Read Cummings (DBA 2014, first placement: Assistant Professor, Department of Economics and Finance, University of South Alabama)
5. Robert Forrester (DBA 2014, first placement: Assistant Professor, Department of Management, Midwestern State University)

PROFESSIONAL SERVICE

1. Ph.D. Admission Committee, School of Data Science, 1/2022 – 5/2022.
2. University Course Cross-listing and Cross-leveling Committee, 11/2019 – 2021, Co-chair.
3. University Graduate Policies and Curriculum Committee, 2013 – 2015.
4. Kennesaw State University Faculty Senate, 2011 – 2012.
5. President’s Planning and Budget Advisory Committee, 8/2011-12/2011.
6. Coles College Graduate Program Curriculum Committee, 2006 – 2009.
7. Coles College Faculty Council, 2014 – 2017, 2021 to present.
8. Department Faculty Council, 2014 to present. Committee Chair, 2021 to present.
9. Department Tenure and Promotion Committee, 2011-2016, 2018-2019, and 2021 (Chair).
10. Department Quant Faculty Search Committee, 2005 – 2006.
11. Department Economics Search Committee, 2006, 2016, and 2020 (Chair).