Haoyang Liu

CONTACT Research and Statistics Group (Capital Markets) (212) 720-2976

INFORMATION Federal Reserve Bank of New York haoyang.liu@ny.frb.org

33 Liberty Street liuhy@berkeley.edu
New York, NY, 10045 liuhy.weebly.com

RESEARCH Mortgage Finance, MB
INTERESTS

Mortgage Finance, MBS, Financial Econometrics, Machine Learning

PROFESSIONAL Federal Reserve Bank of New York

EXPERIENCE Financial Economist, July 2018 - Present

Florida State University

Assistant Professor in Finance, August 2017 - May 2018

EDUCATION University of California at Berkeley

Ph.D., Finance and Real Estate, August 2013 - May 2017

• Committee: Nancy Wallace (Co-chair), Christopher Palmer (Co-chair), Amir Kermani

University of California at Davis

Ph.D., Applied Mathematics, January 2011 - June 2013

• Committee: Debashis Paul (Co-chair), Alexander Aue (Co-chair)

M.S., Electrical and Computer Engineering, September 2009 - December 2010

Shanghai Jiao Tong University

B.S., Electrical Engineering, September 2005 - June 2009

WORKING PAPERS

Errors in the Dependent Variable of Quantile Regression Models, with Jerry Hausman, Ye Luo and Christopher Palmer, revise and resubmit, at Econometrica

Presented at: Cornell; Harvard; MIT; Princeton; UC Davis; UCL; UCLA

Villains or Scapegoats? The Role of Subprime Borrowers during the Housing Boom, with James Conklin, Scott Frame, and Kristopher Gerardi

Presented at: WFA 2018; Federal Reserve Bank of New York

Moving to Better Opportunities? Housing Market Responses to the Top X Percent Policy, with Yang Song and Xiaohan Zhang

Presented at: Association for Education Finance and Policy 2018; UC Riverside

Estimation of Quadratic Forms for High Dimensional Time Series: Correcting Finite Sample Bias in the Mean Variance Frontier, with Alexander Aue and Debashis Paul

Presented at: NBER-NSF Time Series Conference 2016, Columbia University; UC Berkeley Risk Management Seminar; USC Marshall, Data Sciences and Operations

WORK IN PROGRESS Households' Response to Changes in LTV Requirements, with James Conklin and Calvin

Zhang

JOURNAL On Marcenko-Pastur Law for Linear Time Series, with Debashis Paul and Alexander Aue,

PUBLICATIONS Annals of Statistics, vol. 43, no. 2, pp. 675-712, 2015.

Presented at: NBER-NSF Time Series Conference 2013, Federal Reserve Board

Learning in A Changing World: Restless Multi-Armed Bandit with Unknown Dynamics with Keqin Liu and Qing Zhao, IEEE Transactions on Information Theory, vol. 59, no. 3, pp.

1902-1916, March 2013.

ACADEMIC 2018

PRESENTATIONS WFA*, Coronado

(INCLUDES Association for Education Finance and Policy*, Portland

SCHEDULED) Federal Reserve Bank of New York, New York

2017

Florida State University, Tallahassee New York University, New York

Federal Reserve Bank of Cleveland, Cleveland Loyola Marymount University, Los Angeles

UC Riverside*, Riverside BlackRock, New York

2016

NBER-NSF Time Series Conference, Columbia University, New York

UC Berkeley Real Estate Seminar, Berkeley

University of Waterloo, Department of Statistics and Actuarial Science*, Waterloo, Canada

2015

UC Berkeley Risk Management Seminar, Berkeley

USC Marshall School of Business, Data Sciences and Operations*, Los Angeles

2013

NBER-NSF Time Series Conference, Federal Reverse Board, D.C.

(* indicates presentation by coauthor)

TEACHING Florida State University

EXPERIENCE Instructor

Investments (Undergraduate)

Asset Pricing (Ph.D.)

January - May 2018

January - May 2018

University of California, Berkeley

Graduate Student Instructor (Teaching Assistant)

MFE Asset Backed Securitization August - October 2015, August - October 2016 MFE Investment and Derivatives April - May 2015

MBA Real Estate Investment and Market Analysis

January - May 2015

GRANTS AND AWARDS Berkeley New Faculty Advisee Research Grant Fisher Center for Real Estate and Urban Economics Research Grant NBER-NSF Young Researcher Travel Grant (twice) UC Berkeley Graduate Division Travel Grant

REFERENCES

Nancy Wallace (Co-chair)

Professor, Lisle and Roslyn Payne Chair in Real Estate Capital Markets Haas School of Business University of California, Berkeley Berkeley, CA 94720-1900, USA wallace@haas.berkeley.edu +1 (510) 642-4732

Amir Kermani

Assistant Professor Haas School of Business University of California, Berkeley Berkeley, CA 94720-1900, USA kermani@berkeley.edu +1 (510) 664-4139

Christopher Palmer (Co-chair)

Assistant Professor MIT Sloan School of Management 100 Main Street Cambridge, MA 02142 cjpalmer@mit.edu +1 (617) 324-3901