

# Yuxuan Huang

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## Research Fields

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- Primary: International Finance, Empirical Macroeconomics
- Secondary: Forecasting

## Research & Teaching Experiences

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- 2018 Fund Intern Program (FIP) at the International Monetary Fund (IMF)** **2018.6 – 2018.8**
- Work with Camilo E. Tovar and Balazs Csonto at the IMF on a project analyzing the impact of digitalization on inflations.
  - A working paper: *Is the Digitalization of the Global Economy Driving Domestic Inflation*
- Research Assistant and 2017 Fund Intern Program at the IMF** **2017.6 – 2017.8**
- Work with Maria Soledad Martinez Peria on two projects analyzing the impact of credit information on firm's employment and different type of firms' access to finance
  - Construct dataset and test regressions models using Orbis and other databases.
- Research Assistant at the International Monetary Fund** **2017.1 – 2017.5**
- Assist Maria Soledad Martinez Peria on the same project above.
- Research Fellow at the Internet Association** **2016.9 – 2017.5**
- Collect and analyze data on cross-border internet trade market.
  - Study online price dispersion and construct internet trade barrier dataset.
- GUI designer for a Financial Programming Project** **2015.2-2015.5**
- Work as on a financial programming project for Argentina.
  - Use VBA programming to construct GUI, calculate and visualize macroeconomic data
- Research Assistant at Institute for International Economic Policy** **2014.1-2015.7**
- Work for Prof. Jay Shambaugh on project study worldwide expenditure switching behaviors.
  - Work for Prof. Joseph Pelzman on firm merging project.
  - Work for Prof. Maggie Chen on FDI related project.
  - Work for Prof. Sabina Alkire on poverty measurement project.
- EBay Policy Scholar Research Program** **2013.9-2014.7**
- Use large online price data sets to analyze the international price dispersion online.
  - A working paper: *Are There Borders on the Internet?*
- Research Assistant at GWU** **2013.1-2014.1**
- Work for Prof. Graciela Kaminsky: *Two Hundred Years of Financial Integration*.
  - Collect and analyzed debt issuance data of more than 70 countries across centuries.
- Course Instructor and Teaching Assistant at GWU** **2015.9-2018.5**
- Instructor: Teach a summer course (Introduction of International Economics)
  - Teaching assistant: Lead three discussion sections and helped on course teaching.
- Co-Principle Researcher** **2011.12-2012.6**
- Funded Research Project of the National Natural Science Foundation of China
- Analyze data using time series econometric models (VAR and Restricted RVAR models).
  - Co-author 2 published papers with Prof. Mao.

## Education

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### George Washington University (GWU)

2012.9-Present Ph.D. in Economics

**Courses:** Advanced Macroeconomic Theory 1&2, Advanced Microeconomic Theory 1&2, Graduate Econometrics 1&2, International Finance 1&2, Monetary Theory 1&2, Economic Modeling, Forecasting, Computational Macroeconomics, Macro-econometrics.

## South China Agricultural University (SCAU)

2007.9-2011.7

Bachelor of Science in Finance

2009.9 – 2012.6

Bachelor of Science in Mathematical Statistics

**Main Courses:** International Economics, Financial Markets, Financial Engineering, Mathematical Analysis, Numerical Analysis, Data Structures, Probability Theory and Statistics, Random Process, Time Series Analysis, Multivariate Statistics Analysis.

## Skills

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- Programming and Statistics: MATLAB (Dynare) / STATA / Python/ R / Excel (VBA)
- Others: LaTeX (Beamer) / Word, Excel, PowerPoint
- Language: English, Mandarin and Cantonese.

## Professional Affiliations

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- Research Fellow at the Internet Association. 2016-2017
- Member, Research Program of Forecasting, George Washington University, 2013- 2015
- Member, International Institute of Forecasters, 2015 – 2016.
- EBay policy scholar, EBay Inc., 2013.9 – 2014.9.

## Publications

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- Mao, YaJuan; Li, Shan Ming; **Huang, Yuxuan**.  
“Macroeconomics, Government Intervention and Asset Price Fluctuation: A Study on Transfer Mechanisms Based on VAR and RVAR Models.” Securities Market Herald (August, 2014, China)
- Mao, YaJuan; **Huang, Yuxuan**.  
“Community Donations’ Effects on Universities’ Funding Diversification: Experience from Australia”.  
*JiangSu Science & Technology Information* Vol.9. 2011

## Conference Presentations

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- 2018 Southern Economics Association (SEA) meetings – Presenter, “*The Choice of Sterilized Intervention Tools*”
- 2017 SBCA Annual Conference – Presenter, “Macroeconomic effects of Sterilized Intervention”.
- 2015 The 21st Federal Forecasters Conference (FFC 2015) – Presenter, “*Forecasting the USD/CNY Exchange Rate under Different Policy Regimes*”.
- 2015 Georgetown Center for Economic Research Biennial Conference – Presenter, “*Forecasting the USD/CNY Exchange Rate under Different Policy Regimes*”.

## Selected Honors

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- 2016.9 Internet Economy Fellowship at the Internet Association
- 2015.9 Academic Excellence Graduate Assistantship and Fellowship (GWU)
- 2015.3 2014/2015 Student Forecasting Awards at International Institute of Forecasters
- 2013.9 EBay Policy Scholar Fellowship
- 2012.5 Excellent Graduation Thesis Honor (first place)
- 2008-2011 Received SCAU undergraduate scholarship for four consecutive academic years (top five percent).
- 2010.12 Outstanding Volunteer in 2010 Asian Games.

### **“The Choice of Sterilized Intervention Tools”**

**Abstract:** *In this paper, I propose a new classification method of sterilized intervention tool regimes and construct a new dataset for sterilization regimes for 41 countries over 26 years. The main aim of this research is to provide a sterilization classification framework and compare the different sterilized intervention methods to see what the optimal choice for central banks will be to conduct sterilized intervention under different economic situation. Multi-logit models with three-stage choice dependent variable were used to study the sterilized intervention tools choices. The results show that financial openness, financial development and capital inflow surge scenes seem to be the main factors affecting the choices of different sterilization tools. The fiscal cost of interest payments does not play an important role in making the decisions.*

### **“Is the Digitalization of the Global Economy Driving Domestic Inflation”**

**Abstract:** *Digitalization is transforming the global economy, but little is known about its macroeconomic implications. We contribute to close this gap in the literature by examining if digitalization, measured by a new proxy based on IP addresses allocations per country, has influenced inflation dynamics in a sample of 21 advanced and emerging economies over the 2000-2017. Phillips curve estimates show that digitalization has lowered short-run inflation. While its economic impact is small, it has increased since 2012, and mainly operates through a cost/competition channel. Principal components and cointegration analysis further suggest digitalization is a key global driver of structural inflation*

### **“Reserve Requirement Policy and Interest Rate Gaps”**

**Abstract:** *Reserve requirement policy is a widely used monetary policy in the recent decade, especially among developing countries. In this paper, I examine how the deposit and lending interest rates react to reserve requirement rate changes under different economic environment. The cross-country regressions show that on average the interest rate gap increases as the central banks raise the reserve requirement rate. However, this effect is less prominent if the country has a more open capital account or a more developed domestic financial market as they create potential substitutes for investment channels. Other factors such as share of state-owned banks, bank supervisions do not seem to be important in determine the effect of reserve requirement policy on borrowing-lending interest rate gap.*

### **“Forecasting the USD/CNY Exchange Rate under Different Policy Regimes”**

**Abstract:** *The USD/CNY exchange rate exhibits very different pattern in different periods as it changes wildly from one period to another according to the economic reforms and policies. This paper compares the performance of six different forecasting models of USD/CNY exchange rate under three different forecast scenarios from 2005-2015. In particular, the paper focuses in answering the following questions. (i) Do models' forecast performance change when the marketization level changes? (ii) Which model has the best forecast when the regimes change? (iii) Can forecasting robustifications help? The forecast results show that models incorporates economic fundamentals perform better in less regulated periods when the exchange rate can oat more freely. For the forecast experiments with breaks in the forecast origin, the exchange rate CVAR model perform the best before robustifications. In most cases, the intercept-correction and double-difference device improve the forecast performance in both dynamic forecast and one-step forecast. Different models seem to do well under different forecast scenario after applying the robust devices.*

### **“Are There Borders on the Internet? ---International Price Dispersion on eBay”**

**Abstract:** *The traditional “border effect” literature finds that political boundaries have a huge impact on the price dispersion across countries. In this paper, an online transaction dataset of 55 countries over 9 consecutive years from eBay is used to examine the online border effect. The weighted price dispersion indexes are constructed, and quantile regression method and the traditional regression method are both applied to estimate the online border effect. The main result indicates that the distance effect on the cross-border price dispersion is not as important as the offline one but the border effect still exists online. Common language, currency and being within the advanced country group in general help reduce the online price dispersion while the online auction mechanism and the power ranking system have positive effects on the price dispersion.*

### **“Macroeconomics, Government Intervention and Asset Price Fluctuation: A Study on Transfer Mechanisms Based on VAR and RVAR Models” (with Ya-juan Mao and Li, Shan Ming)**

**Abstract:** *The co-movement of asset prices is a core issue in the field of finance. Based on the price indices of China's housing market and stock markets during 2000-2010, this paper thoroughly analyzes the dominance and functional mechanism of the two-way spillover effects between two capital markets and conducts multi-stage study according to different market circumstances by using the empirical methods including VEC models, Generalized Impulse Response Functions and etc. The empirical results indicate that a long-term equilibrium relationship exists between housing prices and stock prices. Consistent with the expectation of wealth effects or credit expansion effects, stock prices have significantly positive impact on housing prices, however housing prices have certain significantly negative effect on stock prices, which is consistent with the expectation of asset substitution effects. Moreover, this paper also finds that stock prices play a dominant role in the spillover effects between two capital markets in terms of short-term causality supporting wealth effects or credit expansion effects and the empirical result only supports a one-way causality. Finally, as macroeconomic circumstances and economic policies change, the dominance and functional mechanism of spillover effects between housing prices and stock prices exhibit significant differences at three stages.*