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### **Contact Information**

Department of Economics  
Binghamton University, State University of New York  
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### **Education**

Ph.D., Economics, State University of New York at Binghamton, expected June 2019  
Dissertation Title: "Essays on the Production Economics"  
*Committee: Subal C. Kumbhakar (chair), Wei Xiao, Florian Kuhn*

M.A., Economics, Kent State University, 2013

B.A., Major in Finance, Minor in Law, Southwest University of Political Science and Law, 2012

### **Research Fields**

Econometrics/Applied Econometrics, Production Economics

### **Research Interests**

Productivity, Efficiency, and Production Analysis, Stochastic Frontier Analysis  
Semi/Nonparametric Econometrics, Economy of China, Spatial Econometrics

### **Job Market Paper**

*"Growing from Spillovers: A Semiparametric Varying Coefficient Approach"*

Abstract: It is conventional wisdom that China's rapid industrialization in recent years is marked by increased agglomeration. This paper examines whether there are productivity spillover effects among clustered firms, and if so, whether human capital affects firms' absorption of spillovers. I propose a semiparametric spatial autoregressive production function in which coefficients are smooth unknown functions of firms' human capital. The varying coefficients not only allow for flexible interactions between human capital and other inputs, but also permit heterogeneous spatial dependence and spillover effects across firms. While the commonly used spatial weighted matrix captures possible learning opportunities among firms, I hypothesize that a firm with more human capital is better at seizing these opportunities. Furthermore, I tackle the simultaneity issue generated by the endogenous inputs using the proxy variable method. I implement this model empirically to analyze firm productivity of China's computer and peripheral equipment industry from 1998 to 2007, and examine the effects of human capital on output elasticities as well as productivity spillovers.

### **Work in Progress**

"Public Capital and the Productivity Puzzle" with Subal Kumbhakar

"A Spatial Autoregressive Stochastic Frontier Model with Spatial Correlated Inefficiency and Its Application" with Shunan Zhao and Subal Kumbhakar

### **Conference Presentation**

North American Productivity Workshop X, University of Miami, Miami, June 2018

Sustainability and Development Conference, University of Michigan, Ann Arbor, November 2018

### **Teaching Interests**

Econometrics/Applied Econometrics, Probability and Statistics, Mathematical Economics,  
Development Economics, Macroeconomics

### Teaching Experience

Instructor: Economics of Developing Countries, Spring 2017

Guest Lecturer: Panel Data & Stochastic Frontier Model (Ph.D. level), Spring 2018  
Applied Econometrics (Ph.D. level), Fall 2016

Teaching Assistant: Macroeconomic Theory I (Ph.D. level), Fall 2017  
Applied Econometrics (Ph.D. level), Fall 2016  
International Monetary Economics, Spring 2016  
Econometrics, Fall 2015  
Economics Development – East Asian, Fall 2014

### Research Experience

Research Assistant to Ritam Chaurey, Spring 2015

### Awards and Honors

Travel Grant of Department of Economics, Binghamton University, May 2018  
Travel Grant of Department of Economics, Binghamton University, October 2018  
Tuition Scholarship and Teaching Assistantship, Binghamton University, 2014-present  
VanBenthuyzen Top Student Scholar, Kent State University, 2013  
Tuition Scholarship and Graduate Assistantship, Kent State University, 2012 & 2013

### Skills

Econometrics: Linear Regression, Logistic Regression, Maximum Likelihood Estimation, Generalized Method of Moments, Non/Semi-Parametric Estimation, Dynamic Panel Data Modelling, Bootstrap  
Software: Matlab, R, Stata, SAS, Java, C, Python, Latex, GitHub

### Professional Activities

Bank of Communications Co., Ltd., Internship, Hefei, China, January 2011  
Bank of East Asia, Limited, Internship, Hefei, China, January 2009

### References

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