

Xin Fang

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EDUCATION

- Ph.D. in Economics, *August 2009*
University of Illinois at Chicago (UIC), Chicago, IL, USA
Dissertation: *Process Innovation, Product Innovation and Firm Size*
Committee: Richard Peck (Chair), Houston Stokes, Joshua Linn, Helen Roberts and Anthony Pagano.
- Visiting Student, *September 2004-June 2005*
Northwestern University, Evanston, IL, USA
- M.A. in Economics, *August 2002*
Tufts University, Medford, MA, USA
- B.S. in International Insurance, *June 2001*
Central University of Finance & Economics (CUFE), Beijing, China

FIELDS OF INTERESTS

- Primary: Industrial Organization, Applied Microeconomics
- Secondary: International Economics, Applied Econometrics, Time Series

TEACHING EXPERIENCE

- **Visiting Assistant Professor**: Department of Economics, University of Illinois at Chicago, Chicago, IL
 - Business Condition Analysis, *Fall 2010*
 - Intermediate Microeconomics: Theory and Business Applications, *Summer 2010*
 - Assisted in teaching Microeconomics I (Graduate Level), *Fall 2010*
- **Visiting Lecturer**: Department of Economics, University of Illinois at Chicago, Chicago, IL
 - Intermediate Microeconomics: Theory and Business Applications, *Spring 2010*
 - Assisted in teaching Business Research and Forecasting (Graduate level), *Spring 2010*
- **Instructor**, University of Illinois at Chicago, Chicago, IL
 - Intermediate Microeconomics: Theory and Business Applications (for undergraduate business majors), *Spring 2005, Fall 2005(2 sessions), Fall 2007, Spring 2008 (big class, 2 sessions)*
 - Industrial Organization (student evaluation 4.38/5), *Summer 2008*
 - Intermediate Microeconomics: Theory and Applications (for undergraduate liberal arts majors) *Spring 2006, Fall 2008*
- **Teaching Assistant**, University of Illinois at Chicago, Chicago, IL
 - Econometrics II, *Spring 2009*
 - Microeconomics for Business Decisions, *Summer 2005, Spring 2007*
 - Statistics for Economics, *Fall 2004*
 - Principles of Economics for Business, *Spring 2004*

RESEARCH EXPERIENCE

- **Visiting Assistant Professor**, UIC Institute for Health Research and Policy
University of Illinois at Chicago, Chicago, IL *Summer 2010 & Fall 2010*
 - Oversee and performs data management, empirical analysis, systematic literature reviews and meta-analyses
 - Design and implement economic and public health studies

- **Research Assistant** for UIC Center for Economic Education
University of Illinois at Chicago, Chicago, IL *Spring 2010~present*
 - Assist in workshops and do analysis of high school economics education
- **Research Assistant** for Prof. Mo-Yin Tam (Associate Vice Chancellor for Academic Affairs)
University of Illinois at Chicago, Chicago, IL, *September 2004-May 2005*
 - Processed and merged undergraduate cohort data and student survey data.
 - Assisted in conducting analysis of student's academic performance based on students' characteristics with designed histogram and pivot table reports.
 - Designed special chart to investigate the pattern of students' term grades and time for graduation with degree.

JOB MARKET PAPER

“Process Innovation, Production Innovation and Firm Size”, will be submitted to Journal of Economics and Management Strategy, November, 2010

Abstract: The determinants of a firm's decision to allocate Research and Development funds between process and product innovation are analyzed. Growth in size will initially increase the probability that a firm undertake product innovation. However, after the threshold size is crossed, the fraction of new products in total sales declines with further increase in firm size. Therefore, the overall relationship between share of product innovation and firm size is nonlinear. The empirical results using Mannheim Innovation Panel survey from ZEW show that in most industries, large firms have a larger share of new product sales.

OTHER RESEARCH PAPERS

- *Brand Name Quiz and Incentives Behind Product Differentiation*, Xin Fang, UIC, working paper, 2010
 - This paper describes how a brand name quiz, the Hotelling Model and various examples can help improve students' understanding the incentives of product differentiation inside a firm and among competitors in monopolistic competition.
- *Price Per Calorie and Obesity Since 1970s*, Xin Xu, Jay Variyam, Zhenxiang Zhao, Frank J. Chaloupka, Xin Fang, working paper, 2010
 - This paper examines the effects of food prices measured as dollars per calorie on obesity, by exploring the relationship between body mass index and the food prices with the samples from large metropolitan areas from 1976 to 2001 in United States.
- *Nonlinearity In the Relationship Between Innovation Choice and Firm Size*, Xin Fang, UIC, working paper, 2010
 - This paper adopts nonlinear models including MARS, GAM to test the relationship between the fraction of product innovation and firm size. The results shows that a simple linear model used in the previous literature is not sufficient to analyze the relationship of innovation resources allocation and size of firm.
- *R&D Cooperation and Investment*, UIC, working paper, 2007
 - Cooperation in R&D tends to reduce R&D expenditures due to economies of scale, while better appropriability from cooperation creates incentives for firms to invest more, thus increasing R&D investments. This paper empirically predicts that the second effect dominates and R&D investments will increase more for smaller firms after cooperation. The results justify the relaxation of antitrust laws towards R&D cooperation.
- *Make-up Test, Take it or not?*, Top two Course Paper, Tufts University, May, 2002
 - This paper models a symmetric game with imperfect information to investigate students' incentives of taking makeup exam given their grades of first exam. Conclusion is tested with simulation.
- *Particularities of Insurance Contract*, CUFE, Outstanding Undergraduate Thesis, May, 2001
 - Analyze the particularities of insurance contract compared to common contract in formulating clauses, principles of Fair and Good Faith and interpretations.

RELEVANT SKILLS

- STATA (Proficient)
 - Cross Section and Panel Data Analysis; Survey Data Analysis
 - Modeling: OLS, GLS, GLM, QMLE, PROBIT, LOGIT, TOBIT, HURDLE etc.
- B34S (Proficient) & SAS (Working Experience)
 - Time Series Analysis
 - Modeling: ARIMA, VARMA, GARCH, GAM, MARS etc.
- Matlab (Working experience)
 - Panel Data analysis with fixed effects and random effects.
 - Modeling: OLS, GMM.
- Microsoft Office, including Word, Excel, PowerPoint (proficient)
- Linux, Maple, Mathematica, and RATS (working experience)
- Fluent in English and Mandarin

AWARDS

- Provost Award for Graduate Research (awarded to most outstanding student in the program) 2008
- Elizabeth Bass Award for determination of pursuing Ph.D. when raising children, UIC 2007
- Bassett, Chiswick, Kosobud, Stokes Award for outstanding academic record, UIC 2006
- Tuition scholarship, Tufts University 2001
- Outstanding College Graduate of Beijing, China 2001
- University Prize for Excellent Student, CUFU, China 2000
- AXA Foundation Fellowship (awarded to 2 outstanding students in Insurance Department) CUFU, China 2000
- University First-class Scholarship, CUFU, China 1998,1999,2000
- University Second-class Scholarship, CUFU, China 1997,1998

PRESENTATIONS

- *Brand Name Quiz and Incentives Behind Product Differentiation*, Illinois Economics Association Annual Meeting, Chicago, IL, *October 2010*
- *Process Innovation, Production Innovation and Firm Size*, Shanghai University of Finance and Economics, Shanghai, China, *June 2009*
- *Process Innovation, Production Innovation and Firm Size*, Illinois Economics Association Annual Meeting, Chicago, IL, *October 2008*

PROFESSIONAL AFFILIATIONS

- American Economics Association, 2006, 2008, 2010
- Midwest Economics Association, 2006
- Illinois Economics Association, 2008, 2010

REFERENCES

Richard M. Peck (Chair of Dissertation Committee)

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Helen H. Roberts

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