

Xin Fang

Department of Economics (MC 144)
University of Illinois at Chicago
601 S. Morgan St., Chicago, IL 60607
Email: xfang5@uic.edu

Home Address:
2207 Ridge Ave., Apt. 3B
Evanston, IL 60201
Phone: (312) 375-5886

EDUCATION

- Ph.D. in Economics, *May 2009 (Expected)*
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

TEACHING EXPERIENCE

- **Lecturer**, University of Illinois at Chicago, Chicago, IL
 - Industrial Organization (student evaluation 4.38/5)
Summer 2008
 - Intermediate Microeconomics: Theory and Applications (for undergraduate liberal arts majors)
Spring 2006, Fall 2008
 - Intermediate Microeconomics: Theory and Business Applications (for undergraduate business majors)
Spring 2005, Fall 2005(2 sessions), Fall 2007, Spring 2008 (big class, 2 sessions)
- **Teaching Assistant**, University of Illinois at Chicago, Chicago, IL
 - Principles of Economics for Business, *Spring 2004*
 - Statistics for Economics, *Fall 2004*
 - Microeconomics for Business Decisions, *Summer 2005, Spring 2007*

RESEARCH EXPERIENCE

- **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.

WORK EXPERIENCE

- **Intern:** Department of Claim, People's Insurance Company of China (PICC), Beijing, *January 2000*
 - Assisted in determining eligibility of claimants and auto insurance policy status.
 - Assisted in researching, investigating and evaluating claims.
- **Intern:** Department of Marine Insurance, PICC, Zhejiang, China, *July-September 2000*
 - Responsible for handling and processing cargo insurance policies.

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)
 - 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) CUFE, China | 2000 |
| ▪ University First-class Scholarship, CUFU, China | 1998,1999,2000 |
| ▪ University Second-class Scholarship, CUFU, China | 1997,1998 |

JOB MARKET PAPER

“Process Innovation, Production Innovation and Firm Size”

Abstract: An innovative firm allocates its research and development (R&D) investments between product and process innovations. This paper extends the literature analyzing the determinants of a firm's decision to allocate R&D between process and product innovation by connecting to the literature of incumbent's innovation and makes predictions about the relationship between firm size and innovation choices and outcomes. Larger firms benefit more from process innovation than smaller firms because of the scale of their operations, while consumers' decision to switch among a firm's products may reduce the size of the scale advantage. We demonstrate that larger firms undertaking both types of innovations are still inclined to process innovation, resulting in a smaller percentage of sales from new or markedly improved products (new product sales ratio). However, being larger increases the probability of product invention due to the existence of a threshold size for a firm to invest in product R&D. Therefore, the overall relationship between new product sales ratio and firm size tends to be nonlinear. The empirical results show that the largest firms are actually most intensive in new product sales.

RESEARCH PAPERS

- *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?*, Tufts University, top 2 research project paper in class, Spring 2002
 - This project 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.

CONFERENCE PRESENTATIONS

- *Process Innovation, Production Innovation and Firm Size*, Illinois Economics Association Annual Meeting, Chicago, IL, October 2008

PROFESSIONAL AFFILIATIONS

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

REFERENCES

Richard M. Peck (Chair of Dissertation Committee)

Associate Professor
 Department of Economics (MC 144)
 601 South Morgan Street, Room 2110 UH
 Chicago, Illinois 60607
 Phone: 1.312.413.2365
 Email: rmpeck@uic.edu

Houston H. Stokes

Professor
 Department of Economics (MC 144)
 601 South Morgan Street, Room 2122 UH
 Chicago, Illinois 60607
 Phone: 1.312.996.0971
 Email: hhstokes@uic.edu

Joshua Linn

Assistant Professor
 Department of Economics (MC 144)
 601 South Morgan Street
 Chicago, Illinois 60607
 Phone: 1.312.413.9444
 Email: jlinn@uic.edu

Helen H. Roberts

Clinical Associate Professor
 Associate Director
 Center for Economic Education
 Department of Economics (MC 144)
 601 South Morgan Street, Room 2127 UH
 Chicago, Illinois 60607
 Phone: 1.312.355.0378
 Email: hroberts@uic.edu