

Jinyong Jeong

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EDUCATION

Boston College, Chestnut Hill, MA

- Ph.D., Economics (Expected: 2018)
Dissertation: “Essays in Matching”
Dissertation Committee: M. Utku Ünver (Chair), Tayfun Sönmez, M. Bumin Yenmez
- M.A., Economics (2013)

Yonsei University, Seoul, Korea

- B.A. in Business, minor in Economics (2009)

RESEARCH FILED

Microeconomics theory, Matching theory, Practice of matching, Mechanism and market Design, Game Theory, Transportation economics

JOB MARKET PAPER

“Matching with Priorities and Property Rights: an Application to a Parking Space Assignment Problem”

I introduce parking in urban areas as a matching problem. First, I model street parking market as a strategic game and show that the set of Nash equilibrium outcomes of the cruising game is equivalent to the set of stable allocations. However, it is not reasonable to expect the drivers to reach a Nash equilibrium in the decentralized system due to the lack of information and coordination failure. Therefore, a centralized system can improve the market and allocate the spaces more efficiently. I suggest a centralized mechanism with which a parking authority can assign available spaces to drivers in a stable way.

The model incorporates residents’ parking spaces, such that visitors could access vacant residents’ spaces. To use the residents’ parking spaces, the system needs to protect exclusive property rights over their parking spaces. I show that, however, there is no mechanism that is stable and protects residents’ rights. To resolve this issue, I introduce a new concept, a claim contract and suggest a mechanism that protects property rights, is strategy proof for the drivers, and approximates a stable matching.

Besides its market-design focus, this paper handles both property-based and property right-based assignment, which were considered separately in the matching theory literature. This is the main theoretical contribution of this paper.

OTHER WORKING PAPER

“Efficient Matching with Ordered Endowments”

I study an efficient matching problem in a discrete resource exchange market where each agent’s endowment is an “ordered” list of two items. That is, the second item cannot be consumed/traded before the first item is consumed/traded. The leading examples of such problems are student exchanges among universities, house and car swapping for vacation housing among many others. In student exchange, either a student can leave the school for the first semester or both semesters (but not only second semester). In vacation house trading, either the house can be traded or house and car together, but not the car itself. I propose two efficient mechanisms for this problem: Top-Trading Cycles with Counter Offers and Dual Top-Trading Cycles.

RESEARCH IN PROGRESS

- “A Saturated Search Model for Parking”
- “The Restricted Mechanism in Korean College Admission System”

CONFERENCES AND SEMINARS

- “Stable Matching with Property Rights”
 - Conference on Economic Design (York, United Kingdom, June 2017)
- “Parking Space Assignment Problem: A Matching Mechanism Design Approach”
 - International workshop on the Economics of Parking-poster session (Barcelona, Spain, Nov 2016)
 - ITEA Annual Conference on Transportation Economics (Barcelona, Spain, June 2017)
- Note: the above two papers are combined into the job market paper “Matching with Priorities and Property Rights: An Application to a Parking Space Assignment Problem”

SUMMER SCHOOLS

- 25th Jerusalem School in Economic Theory: Matching and Market Design
(Jerusalem, Israel, June 2014)
 - Summer school grant
- ITEA Annual Conference and School on Transportation Economics (Barcelona, Spain, June 2017)

AWARDS AND SCHOLARSHIPS

- Boston College Dissertation Grant (2017)
- ITEA School Scholarship (2017)
- Boston College Department of Economics Fellowship Award (2015)
- Full Tuition Remission and Stipend, Boston College (2012-2017)
- Brain Korea, Yonsei University (2009-2011)

TEACHING EXPERIENCE

- **Instructor, Boston College, Chestnut Hill, MA**
 - Microeconomic Theory (Fall 2017; Spring 2018)
- **Lab Instructor, Boston College, Chestnut Hill, MA**
 - Statistics lab (Fall 2016; Spring 2017)
- **Teaching Fellow, Harvard University, Cambridge, MA**
 - Microeconomics (Fall 2015)
- **Teaching Assistants, Boston College, Chestnut Hill, MA**
 - Graduate Microeconomics (Fall 2012; Spring 2013)
 - Principles of Microeconomics (Fall 2013; Fall 2014)
 - Principles of Macroeconomics (Spring 2014; Spring 2015)
 - Statistics lab (Fall 2016; Spring 2017)
 - Calculus (Spring 2017)
- **Tutor at Learning Resources for Student-Athletes, Boston College, Chestnut Hill, MA**
 - Calculus, Statistics, Economics (Fall 2016; Spring 2017; Fall 2017)
- **Teaching Assistants, Yonsei University, Seoul, Korea**
 - Mathematics for Economics (Fall 2010)
 - Graduate Mathematical Statistics (Spring 2011)

RESEARCH EXPERIENCE

- **Boston College, Chestnut Hill, MA**
 - Research assistant for Andrew Beauchamp and Mathis Wagner, resulted in “Dying to Retire: Adverse Selection and Welfare Social Security” (Fall 2012; Spring 2013)
 - Research Assistant for Karim Chalak (Summer 2012)
- **Korea Economic Research Institute (KERI), Seoul, Korea**
 - Research assistant in microeconomics research (Sep. 2010 - Aug. 2011)

SKILLS

- Computer Skills: Stata, Matlab, LATEX
- Languages: Korean (mother tongue), English (Fluent)

REFERENCES

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