

# Haiyue Yu

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## EDUCATION

### Shanghai Jiao Tong University

Ph.D. Candidate, Management Science  
Supervisor: Huan Zheng

September 2016 – present

### Beijing Jiao Tong University

M.E., Computer Vision  
Supervisor: Hongli Xu

September 2014 – June 2016

Thesis: “Scene Analysis of Multi-view Videos based on Social Camera”

B.S., Information and Computing Science

September 2010 – June 2014

Thesis: “Applying multi-scale analysis in financial markets”

## RESEARCH INTERESTS

- Healthcare Operations Management and Analytics

## WORKING PAPERS

- Haiyue Yu, Panpan Wang, Huan Zheng, Ying Rong, Jifeng Luo and Jun Li, Impacts of Congestion on Healthcare Outcomes and Physicians Behavior: An Empirical Observation in China, *submitted to Health Policy and Planning*.

## WORKING IN PROGRESS

- The labor-supply behavior of physicians is an important determinant of the performance of any health-care system. One policy instrument which is available to improve efficiency is compensation design: the hospital decides a basic workload (threshold) that physicians will be compensated for exceeding the basic workload. We consider the decision problem to determine the optimal thresholds for different departments. We first analyze historical data using fixed effects OLS models to estimate physicians’ workload per day and describe the impact of different factors on that. Next, we formulate an optimization model in which the hospital is allowed to determine different thresholds for different departments to minimize compensating wage differentials among different departments. Our model can help to improve the rationality of basic workload. The project is jointly

working with Huan Zheng, Huijuan Wang and Children's Hospital of Shanghai.

## CONFERENCE PRESENTATIONS

“Impacts of Congestion on Healthcare Outcomes and Physicians Behavior: An Empirical Observation in China”

- Informs Healthcare Conference 2017, Netherlands, July 26 – 28, 2017
- Operations Research Society of China conference – Scheduling and Healthcare Operations Management, China, May 11–13, 2018

## HONORS

- Best Young Scholar Paper Award, Operations Research Society of China Conference - Scheduling and Healthcare Operations Management, China, 2018
- Academic Excellence Scholarship, Beijing Jiao Tong University, China, 2013

## TEACHING EXPERIENCE

### Teaching Assistant

- Beijing Jiao Tong University September 2015 – January 2016  
“Fundamentals of Computer” (Undergraduate)
- Shanghai Jiao Tong University September 2017 - present  
“Optimization Model and Algorithm” (Postgraduate)  
“Service Operations Management” (MBA level)- 2 sections  
“Stochastic Dynamic Programming” (Postgraduate)

## PROFESSIONAL SERVICE

### Research Assistant

- Project “Deep Canonical Correlation Analysis for Nonstationary Time Series” supported by National Natural Science Foundation of China, Beijing Jiao Tong University, 2012-2013

### Volunteer

- Workshop on Revenue Management, Shanghai Jiao Tong University, 2018