Parshan Pakiman

Homepage: https://parshanpakiman.github.io/homepage/
LinkedIn: https://linkedin.com/in/parshan-pakiman/
Email: ppakim2@uic.edu
Tel: +1 312 493 1304

Last update: November 2019

Summary

I am a third-year Ph.D. student seeking a research internship position in summer 2020. My area of research includes reinforcement learning and approximate dynamic programming, inverse reinforcement learning, and data-driven and robust optimization with applications in marketing, operations, online retailing, and warehousing.

Education

University of Illinois at Chicago (UIC), Chicago, IL — Spring 2017 - Present

Ph.D. in: Information and Decision Sciences
Areas of research: Operations Research and Machine Learning with applications in Operations and Marketing
Co-advisors: Prof. Selva Nadarajah and Prof. Negar Soheili

University of Illinois at Chicago (UIC), Chicago, IL — Spring 2017 - Present

M.Sc. in: Business Analytics

University of Tehran (UT), Tehran, Iran — Fall 2012 - Fall 2016

B.Sc. in: Applied Mathematics

Research Interests

- Solving sequential decision making problems by combining techniques from approximate dynamic programming, randomized and high-dimensional sampling, and optimization.
- Developing algorithms for online retailing and warehousing problems using data-driven optimization, robust optimization, and inverse reinforcement learning methods.

Research Papers

- SMOILE: A Shopper Marketing Optimization and Inverse Learning Engine. Joint work with Abhilash Reddy Chenreddy, Selvaprabu Nadarajah, Ranganathan Chandrasekaran, and Rick Abens. In The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining. — Summer 2019
- Self-guided Approximate Linear Programs. Joint work with Selvaprabu Nadarajah, Negar Soheili, and Qihang Lin (draft available upon request). — Present
- Box-suite Optimization for Online Retailers. Joint work with Selvaprabu Nadarajah and Yun Fong Lim (work in progress). — Present

Experiences

- Visiting Ph.D. student at Booth School of Business, University of Chicago, Chicago, IL. — Fall 2018
- Visiting Ph.D. student at IEMS, Northwestern University, Chicago, IL. — Spring 2017
- Collaborating with Foresight ROI, Inc on a shopper marketing campaign optimization project. — Fall 2017 - Present

Technical Skills

Programming language: Python, C++, C, R, Java
Optimization solver: GUROBI, AMPL, GAMS
Software: Matlab, Microsoft/Libre office
Operating systems: Linux, MacOS, Windows

Awards and Honors

Doctoral scholarship: Department of Information and Decision Sciences, University of Illinois at Chicago — Spring 2017 -Present
CBA fellowship: Department of Information and Decision Sciences, University of Illinois at Chicago — Spring 2017 - Present
Top student award: Department of Mathematics, Statistics and Computer Science, University of Tehran — Fall 2016
Technical qualification: RoboCup Iran open, soccer 2D simulation league. — Fall 2016
Technical qualification: Khwarizmi international award, soccer 2D simulation league. — Fall 2010

Invited Talks

- **Self-guided Approximate Linear Programs**

  POMS 30th Annual Conference, Washington D.C. — Spring 2019
  INFORMS Annual Meeting, Phoenix, AZ. — Fall 2018
  POMS 29th Annual Conference, Houston, TX. — Spring 2018

- **SMOILE: A Shopper Marketing Optimization and Inverse Learning Engine**

  The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Anchorage, AK. — Summer 2019

Teaching Experience

Guest lecture for statistical models and methods for business analytics — Spring 2019

Topic: Applications of regression, classification and likelihood maximization
Slides: https://chicagodatascience.github.io/s19/575/

Teaching Assistant, University of Illinois at Chicago — Spring 2017 - Present

Introduction to operations management (IDS 532)
Statistical models and methods for business analytics (IDS 575)
Data science for online customer analytics (IDS 594)
Business data mining (IDS 472)
Business forecasting (IDS 476)

Teaching Assistant, University of Tehran — Fall 2014 - Fall 2016

Numerical linear algebra
Introduction to numerical analysis and scientific computing

Service

Reviewer

Computers & Operations Research — Spring 2019
Information Systems and Operational Research — Fall 2018
Electronic Commerce Research — Spring 2018