

Parshan Pakiman

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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, data-driven optimization, and robust optimization with applications in operations, online retailing, marketing, and warehousing.

EDUCATION

University of Illinois at Chicago (UIC), Chicago, IL

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

Spring 2017 -
Present

University of Illinois at Chicago (UIC), Chicago, IL

M.Sc. in: Business Analytics

Spring 2017 -
Present

University of Tehran (UT), Tehran, Iran

B.Sc. in: Applied Mathematics

Fall 2012 - Fall 2016

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

TECHNICAL SKILLS

Programming language: Python, C++, C, R, Java
Optimization solver: GUROBI, AMPL, GAMS
Machine learning library: TensorFlow, Scikit-Learn
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 -

Introduction to operations management (IDS 532)

Present

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