Xinchang Xie

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LAST UPDATED: November 11, 2021

ACADEMIC Northwestern University

Appointment Kellogg School of Management 2021.1-present

Postdoctoral Research Fellow Advisor: Prof. Itai Gurvich

Cornell Tech 2020.6-2020.12

Postdoctoral Research Fellow Advisor: Prof. Itai Gurvich

EDUCATION Duke University, Fuqua School of Business, Durham, NC 2020

Ph.D. in Business Administration (Decision Sciences)

Advisors: Prof. Alessandro Arlotto and Prof. Alexandre Belloni

University of Science and Technology of China, China 2014

B.S. in Mathematics and Applied Mathematics

RESEARCH Applied probability, business analytics, operations management, and

Interests operations research

Papers Xie, X. and Gurvich, I. (2021). Dynamic allocation of reusable resources: Log-

arithmic regret in hierarchical networks. Working paper

Arlotto, A., Belloni, A., and Xie, X. (2021). Data-driven monitoring the optimality of policies across many Markov decision problems. *Working paper*

Arlotto, A. and Xie, X. (2021). Sequential policies and the distributions of their total rewards in dynamic and stochastic knapsack problems. *Working paper*

Arlotto, A. and Xie, X. (2020). Logarithmic regret in the dynamic and stochastic knapsack problem with equal rewards. *Stochastic Systems*, 10(2):170–191

Arlotto, A., Wei, Y., and Xie, X. (2018). An adaptive $O(\log n)$ -optimal policy for the online selection of a monotone subsequence from a random sample. Random Structures Algorithms, 52(1):41-53

Yang, J., Li, Y., Xie, X., and Yang, Z. (2017). Alternating direction method for separable variables under pair-wise constraints. *Communications in Mathematics and Statistics*, 5(1):59–82

TEACHING Instructor, EGRMGMT580: Decision Models
EXPERIENCE Master of Engineering Management, Duke University

Spring 2018

Teaching Assistant

• Decision618: Data Analytics for Business (MBA) Fall 2018, 2019 Prof. Alexandre Belloni

• BA915/Math742/STA715: Stochastic Models Spring 2016–2018 Prof. Alessandro Arlotto

• Math541: Applied Stochastic Processes Prof. Richard Durrett Fall 2017

PROFESSIONAL Reviewer for Computers & Operations Research, Management Science, Oper-ACTIVITIES ations Research, Operations Research Letter, Stochastic Systems

References Alessandro Arlotto

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Alexandre Belloni

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