Michael Huang

Contact Bridge Hall 401J ☑ huan076@usc.edu Information 3670 Trousdale Pkwy Los Angeles, CA 90089 EDUCATION University of Southern California Los Angeles, CA Ph.D. Student in Data Sciences and Operations 2017-2022 (Expected) Thesis: Data-driven optimization for the small-data regime Advisors: Vishal Gupta, Paat Rusmevichientong Columbia University New York, NY M.S. and B.S. in Operations Research, Minor in Computer Science 2011-2015 Research Large-scale, data-driven optimization with scarce data and algorithm design with ap-Interests plications in transportation, healthcare, and recommender systems. **Publications** M. Huang and C. Stein. Extending Search Phases in the Micali-Vazirani Algorithm. 16th International Symposium on Experimental Algorithms, pp. 10:1–10:19, 2017. Working Papers V. Gupta, M. Huang, P. Rusmevichientong, "Decomposition Methods for Small-Data, Large-Scale Discrete Optimization." Manuscript in Preparation. Targeted Journal Management Science C. W. Chan, M. Huang, V. Sarhangian, "Dynamic server assignment in multiclass queues with shifts, with application to nurse staffing in emergency departments." Submitted to Operations Research Projects Mora 2019-Present Co-founder, Data Scientist Boston, MA - Developing a matching algorithm to improve the quality of behavioral healthcare experience and referral process. Currently collaborating with Harvard University Health Services. - Accepted into Harvard Business School Rock Incubator Venture Program **Emergency Department Nurse Scheduler** 2016-2017 - Implemented web application to schedule nurses for a trial at Weill Cornell Medicine which significantly reduced wait times in the Emergency department. - Developed data-driven nurse scheduling policies by studying the discrete-time fluid control problem for a multiclass queuing system that minimizes holding costTeaching Columbia University EXPERIENCE Teaching Assistant, CSOR 4231 Analysis of Algorithms I Fall 2016 Course Assistant, IEOR 4405 Production Scheduling Spring 2016 Honors and 1st Place, Correlation One Datathon, Southern California 2017 Awards Marshall/Graduate School Fellowship 2017-2022 The Robert Gartland Fellowship 2016 Conferences & "Decomposition Methods for Small-Data, Large-Scale Discrete Optimization" INVITED TALKS • INFORMS Annual Meeting, Seattle, WA 2019.10 "Extending Search Phases in the Micali-Vazirani Algorithm"Symposium on Experimental Algorithms, London, UK

2017.06

SERVICES Conference Organization: INFORMS Session Chair 2019

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