

CURRICULUM VITAE

Max Biggs

April 2020

EDUCATION

2014 - 2019 **Massachusetts Institute of Technology, Ph.D.**
Operations Research Center
Advisor: Prof. Georgia Perakis

2010 - 2013 **University of Auckland, B.Eng.(hons)**
First class honors
Major: Engineering Science

HONORS AND AWARDS

2019 **MSOM Practice Based Research Finalist**
Awarded for paper entitled: "Pricing for heterogenous products: analytics for ticket reselling"

2018 **INFORMS Data Science Best Paper Award**
1st place, awarded for paper entitled: "Optimization objective functions determined from random forests"

2017 **Service Science Best Cluster Award Finalist**
Awarded for paper entitled: "A ranking algorithm for tramp shipping in the spot market"

2014 **William Georgetti Fellowship**
Awarded by Governor General of New Zealand

2010 **Bronze medalist International Biology Olympiad**

2009 **Dux and Deputy Head Boy**
Scots College, Wellington, New Zealand

EMPLOYMENT

2020 **Assistant Professor of Business Administration**
Quantitative analysis group
Darden School of Business

- 2019/20 **Post-Doctoral Researcher, IBM Watson**
Part of AI for travel industry team, developed algorithms for interpretable data driven pricing using machine learning.
- 2019 **Adjunct Professor Darden School of Business, University of Virginia**
Taught 2 sections of core Decision Analysis course
- 2016 **Research Intern, Amazon**
Formulating and coding a large scale advertising optimization problem to solve within tight time frame
- 2015/16 **Planning Consultant, Thenamaris Shipping Company**
Working on algorithms to design ship routes based on dynamic availability of cargoes
- 2014 **Data Scientist, Harmonic Analytics Limited**
Provided consulting services to help clients create value from their data using mathematical and statistical models.

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW _____

Biggs, M., Ettl, M., Sun, W. Knowledge distillation for revenue management: interpretable personalized pricing (under review), 2020.

Biggs, M., Prescriptive analytics for operations problems: a tree ensemble approach. PhD thesis. 2019.

Biggs, M., Perakis, G. Dynamic routing for healthcare providers. 2019.

Alley, M., Biggs, M., Hariss, R., Hermann, C., Li, M., Perakis, G., Pricing for heterogenous products: analytics for ticket reselling (major revision MSOM). 2018.

Biggs, M., Hariss, R. Optimization objective functions determined from random forests (major revision POMS), https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2986630 . 2017

Biggs, M., Perakis, G. A ranking algorithm for tramp shipping in the spot market (R & R Management Science). 2017.

TEACHING EXPERIENCE _____

ADJUNCT PROFESSOR (DARDEN SCHOOL OF BUSINESS)

Fall 2019 **Decision Analysis 1 (2 sections)**

TEACHING ASSISTANTSHIPS (MIT)

Summer 2017 **Intro to Operations Management (executive MBA)**

Fall 2016 - **Data Models and Decisions (executive MBA)**