

# Michael Huang

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## EDUCATION

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**Marshall School of Business, University of Southern California** Los Angeles, CA  
*Ph.D., Data Science and Operations* September 2017 – May 2022 (Expected)

**Columbia University** New York, NY  
*M.Sc., B.Sc. in Operations Research* September 2015 – December 2016  
*Bachelor of Science in Operations Research, Minor in Computer Science* September 2011 – May 2015  
Positions: Analysis of Algorithms Teaching Assistant, Production Scheduling Course Assistant

## RESEARCH EXPERIENCE

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**Columbia Business School** New York, NY  
*Summer Research Intern* June 2016 – August 2016

- Implemented web application to schedule nurses for a two week trial at Weill Cornell Medicine
- Developed nurse scheduling policies based on deterministic models and queuing theory to minimize overcrowding in waiting rooms of Emergency departments
- Built efficient simulations to develop improvements for the deterministic model under randomness

*Research Assistant (Prof. Carri Chan)* August 2015 – October 2015

- Developed simulations to determine optimal allocation of beds in hospital ICU-SDU systems that contained additional dynamics that were not considered in the main queuing model of the paper

**Columbia University** New York, NY  
*Research Assistant (Prof. Jose Blanchet)* February 2016 – March 2016

- Creating examples with excel spreadsheets and VBA macros to demonstrate the applications of robust models, such as performance analysis of simulations and calculating conditional-value-at-risk

*Research Assistant (Prof. Vineet Goyal)* June 2015 – August 2015

- Built an in-game, resource-based probabilistic model for cricket matches to determine the chance of winning and to generate ratings for players based on their contribution towards the match outcome

## CONFERENCE PROCEEDINGS

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- Michael Huang** and Clifford Stein. Extending Search Phases in the Micali-Vazirani Algorithm. 16th International Symposium on Experimental Algorithms (SEA 2017), pp. 10:1–10:19, Dagstuhl, Germany, 2017.

## AWARDS

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- The Robert Gartland Fellowship**
- Marshall/Graduate School Fellowship**
- 1st Place Winner, Citadel/Correlation One Datathon, Southern California**

## WORK EXPERIENCE

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**Aquant Capital Management, LLC** New York, NY  
*Consultant* July 2016 – August 2016

- Replicated a private equity fund strategy through a risk-adjusted portfolio of small, value stocks
- Analytically solved a game theory problem and coded a numerical method to obtain solution

**Haidar Capital Management** New York, NY  
*Generalist Intern* August 2014 – February 2015

- Assisted traders by writing and improving VBA macros to automate procedures and increase efficiency
- Researched competitor funds focusing on macro strategy to identify potential and untapped ideas

## SKILLS & INTERESTS

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**Technical Skills:** Python, Julia, R, C/C++, Matlab, SAS, Java, SQL, VBA, Bloomberg, FactSet

**Interests:** Running, poker, strategy games, daily fantasy sports, chess, Ultimate Frisbee, violin, painting

**Github:** <https://github.com/LaughMachine>