

Alex P. Miller

CURRICULUM VITAE

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The Wharton School, University of Pennsylvania
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EDUCATION

The Wharton School, University of Pennsylvania
Doctoral Candidate in Operations, Information, & Decisions
Concentration: Information Systems & Technology
Advisor: Kartik Hosanagar
Philadelphia, PA; 2015 – Present



Clark Honors College, University of Oregon
Bachelor of Arts, Mathematics, *summa cum laude*, ΦBK
Eugene, OR; 2008 – 2012



RESEARCH INTERESTS

A/B testing, causal inference, machine learning, algorithmic decision making, and online recommendation systems

RESEARCH

Working Papers:

- Improving Recommender Diversity with Probabilistic Item Selection
- An Empirical Analysis of E-commerce A/B Testing Practices

Conference Presentations

- **Alex P. Miller** & Kartik Hosanagar. “What’s best to test? An empirical meta-analysis of e-commerce A/B testing practices”. Conference on Data Science for Business and Economics at Purdue University. May 2018. West Lafayette, IN.
- Kartik Hosanagar & **Alex P. Miller**. “Improving Recommender Diversity with Probabilistic Item Selection”. Workshop on Information Systems & Technologies (WITS). December 2017. Seoul, Korea.
- **Alex P. Miller** & Kartik Hosanagar. “What’s best to test? An empirical meta-analysis of e-commerce A/B testing practices”. Conference on Digital Experimentation (CODE@MIT). October 2017. Cambridge, MA.
- Kartik Hosanagar & **Alex P. Miller**. “Improving Recommender Diversity with Probabilistic Item Selection”. Conference on Information Systems & Technology (CIST). October 2017. Houston, TX.

- **Alex P. Miller** & Kartik Hosanagar. “Exploratory Meta-analysis of E-commerce A/B Testing Practices”. Wharton Innovation Doctoral Symposium (WINDS). October 2017. Philadelphia, PA.
- **Alex P. Miller** “Does Data Kill Creativity? A Model of Innovation and Analytics in New Product Development”. Wharton-INSEAD Doctoral Consortium. December 2016. Singapore.

Publications

- Kartik Hosanagar & **Alex P. Miller** “Who do we blame for the filter bubble? On the interaction between people, data, and algorithms in online social systems”. Book Chapter. *After the Digital Tornado*. Forthcoming, 2018.

HONORS & AWARDS

- Best Predictive Model at Applied Machine Learning Conference 2018
- Baker Retail Center Research Grant, 2017
- Mack Institute Research Fellowship, 2017
- Oregon Six (Phi Beta Kappa), 2012
- Math Department Honors 2012
- Distinguished Honors Research Thesis Defense 2012
- Stevenson Prize 2012
- Curtis Scholarship 2011
- Undergraduate Research Fellowship, 2011

SERVICE & LEADERSHIP

Conference Board: Wharton Innovation Doctoral Symposium 2018
Session Chair: Wharton Innovation Doctoral Symposium 2018
Reviewer: International Conference on Information Systems 2017, Wharton Innovation Doctoral Symposium 2017-2018
Web Chair: Penn Open Labs 2017-2018

TEACHING EXPERIENCE

- Instructor, Wharton Ph.D. Tech Camp, Summer 2017
- TA, Enabling Technologies OIDD 344/662, Spring 2017

WRITING

- “Why do we care so much about explainable algorithms? In defense of the black box”. 11 January 2018. *Towards Data Science*. Link. <https://towardsdatascience.com/why-do-we-care-so-much-about-explainable-algorithms-in-defense-of-the-black-box-d9e3bc01e0dc>
- “Are machines biased or are we biased against machines?”. 24 May 2016. *Towards Data Science*. Link: <https://towardsdatascience.com/are-machines-biased-or-are-we-biased-against-machines-17982310152b>

**INDUSTRY
EXPERIENCE**

Research Intern – Monetate Labs

Analytics Consultant – Adpearance

Full Stack Developer, Data Scientist – SmartyPal

Digital Marketing Specialist – Adpearance

April 2017 – Present

April 2015 – April 2017

April 2014 – August 2015

October 2012 – April 2014