

# Lovenoor (Lavi) Aulck

laulck@uw.edu | www.lovenooraulck.com

## Professional Experience

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<b>Data Scientist</b> University of Washington Office of Planning and Budgeting <i>Institutional Data and Analysis Team</i>	Sep 2019 - Present Seattle, WA
<b>Guest Lecturer</b> University of Washington Information School <i>Graduate and Undergraduate Instruction</i>	Sep 2019 - Present Seattle, WA

## Education

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<b>PhD in Information Science</b> University of Washington, Seattle, WA <i>Dissertation: Leveraging Institutional Data to Examine the Freshman Experience Using Machine Learning and Causal Inference Methods; Advisor: Jevin West</i>	2019
<b>MS in Bioengineering</b> University of Washington, Seattle, WA <i>Thesis: Ex Vivo Biomechanical Testing to Examine the Etiology of Low Back Pain as a Result of Whole Body Vibration; Advisor: Randal P. Ching</i>	2012
<b>BS in Bioengineering</b> (cum laude) University of Washington, Seattle, WA	2011
<b>BA in International Studies</b> (cum laude) University of Washington, Seattle, WA	2011

## Fellowships & Internships

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<b>Summer Data Science Internship</b> Paccar Inc. <i>Information Technology Division</i>	Jun 2018 - Sep 2018 Renton, WA
<b>Summer Data Science Internship</b> University of Washington Office of Planning and Budgeting <i>Institutional Data and Analysis Team</i>	Jun 2017 - Sep 2017 Seattle, WA
<b>Summer Data Science Internship</b> Enlearn <i>Research Team</i>	Jun 2016 - Sep 2016 Seattle, WA
<b>Research Assistantship</b> Allen Institute for Artificial Intelligence <i>Semantic Scholar Team</i>	Sep 2015 - Jan 2016 Seattle, WA
<b>Summer Data Science Internship</b> Microsoft Research <i>Internet Services Research Center</i>	Jun 2015 - Sep 2015 Redmond, WA
<b>Whitaker International Research Fellowship</b> Vrije Universiteit (VU University) <i>MOVE Institute</i>	Dec 2012 - Sep 2013 Amsterdam, Netherlands

## Teaching

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**IMT 573: Data Science I;** University of Washington, Seattle, WA

- Autumn Quarter, 2020; Instructor
- Autumn Quarter, 2019; Instructor
- Autumn Quarter, 2014; TA under Prof. Emma Spiro

**INFO 201: Technical Foundations of Informatics;** University of Washington, Seattle, WA

- Summer Quarter, 2020; Instructor

**IMT 575: Data Science III;** University of Washington, Seattle, WA

- Spring Quarter, 2020; Instructor
- Spring Quarter, 2016; TA under Prof. Jevin West

**INFO 370: Intro to Data Science;** University of Washington, Seattle, WA

- Autumn Quarter, 2018; Instructor
- Autumn Quarter, 2017; Co-Instructor with Li Zeng
- Autumn Quarter, 2016; Co-Instructor with Prof. Jevin West
- Autumn Quarter, 2015; Co-Instructor with Prof. Jevin West
- Spring Quarter, 2015; TA under Prof. Jevin West

## Academic Service

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**iSchool PhD Admissions Committee;** University of Washington, Seattle, WA

- 2015-16 Admissions Cycle

**Undergraduate Research Advising;** University of Washington, Seattle, WA

- Daniel Snitkovskiy; Informatics Senior Capstone; September 2018 - June 2019
- Kishore Vasan; Informatics Undergraduate Research; May 2017 - August 2018
- Alex Lau; Geography Undergraduate Research; Jun 2017 - Mar 2018
- Rohan Aras; Informatics Senior Capstone; Jan - Jun 2017
- Coulter L'Heureux; Informatics Senior Capstone; Jan - Jun 2017
- Lysia Li; Informatics Senior Capstone; Jan - Jun 2017
- Peter Lu; Informatics Senior Capstone; Jan - Jun 2017
- Casey Lee; Informatics Senior Capstone; Nov 2016 - Jun 2017
- Joshua Malters; Informatics Senior Capstone; Nov 2016 - Jun 2017
- Gianni Mancinelli; Informatics Senior Capstone; Nov 2016 - Jun 2017
- Nishant Velagapudi; Informatics Senior Capstone; Jan - Jun 2016
- Patrick Spieker; CSE Undergraduate Research; Jan - Jun 2016
- Timothy Landowski; Informatics Undergraduate Research; Jan - Jun 2016

## Other Professional Experience

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**Volunteer Data Scientist**

Central Puget Sound Higher Education Capacity Study  
*Assisting with data analysis and visualization*

Sep 2017 - Dec 2017  
Seattle, WA

**Research Engineer**

University of Washington  
*Department of Environmental and Occupational Health Sciences*

Sep 2013 - Sep 2014  
Seattle, WA

**Consultant**

Amazon, Inc.  
*Fire Phone Development*

Sep 2013 - Dec 2013  
Seattle, WA

## Links

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- [Google Scholar Profile](#) 
- [ResearchGate Profile](#) 

## Refereed Journal Publications

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**L Aulck**, J Malters, C Lee, G Mancinelli, A Lau, M Sun, J West. Helping Students FIG-ure it Out: A data-driven look at freshmen seminar groups and first-year interest groups (FIGs). In preparation. Target journal: *Socius*.

D Litt, M Lewis, E Spiro, **L Aulck**, K Waldron, MK Head-Corliss, A Swanson (2018). #drunktwitter: Examining the Relations Between Alcohol-Related Twitter Content and Alcohol Willingness and Use Among Underage Young Adults. *Drug and Alcohol Dependence*. [↗](#)

**L Aulck**, J West (2017). Attrition and Performance of Community College Transfers. *PLOS ONE*. [↗](#)

JH Kim, M Zigman, **L Aulck**, J Ibbotson, JT Dennerlein, PW Johnson (2016). Whole Body Vibration Exposures and Health Status among Professional Truck Drivers: A Cross-sectional Analysis. *Annals of Occupational Hygiene*. [↗](#)

JH Kim, **L Aulck**, D Trippany, PW Johnson (2015). The Effects of Work Surface Hardness on Mechanical Stress, Muscle Activity, and Wrist Postures. *Work*. [↗](#)

JH Kim, **L Aulck**, MC Bartha, CA Harper, PW Johnson (2014). Differences in Typing Forces, Muscle Activity, Comfort, and Typing Performance among Virtual, Notebook, and Desktop Keyboards. *Applied Ergonomics*. [↗](#)

JH Kim, **L Aulck**, O Thamsuwan, MC Bartha, PW Johnson (2014). The Effect of Key Size of Touch Screen Virtual Keyboards on Productivity, Usability, and Typing Biomechanics. *Human Factors: The Journal of the Human Factors and Ergonomics Society*. [↗](#)

## Conference Manuscripts/Publications

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**L Aulck**, D Nambi, J West (2020). Increasing Enrollment by Optimizing Scholarship Allocations Using Machine Learning and Genetic Algorithms. *International Conference on Educational Data Mining*. [↗](#)

**L Aulck**, R Aras, L Li, C L'Heureux, P Lu, J West (2019). Using Machine Learning and Genetic Algorithms to Optimize Scholarship Allocation for Student Yield. *Special Interest Group on Knowledge Discovery and Data Mining's (KDD's) Workshop on Machine Learning in Education*. [↗](#)

**L Aulck**, D Nambi, N Velagapudi, J Blumenstock, J West (2019). Mining University Records to Predict First-Year Attrition. *International Conference on Educational Data Mining*. [↗](#)

**L Aulck**, J Malters, C Lee, G Mancinelli, A Lau, M Sun, J West (2019). Using institutional records and student survey responses to examine freshmen interest groups (FIGs). *Society for Research in Educational Effectiveness' (SREE's) Symposium on New Types of Data and Their Applications in Educational Research*.

**L Aulck**, K Vasani, J West (2018). Is together better? Examining scientific collaborations across multiple authors, institutions, and departments. *Special Interest Group on Knowledge Discovery and Data Mining's (KDD's) Workshop on Scholarly Big Data (BigScholar)*. [↗](#)

**L Aulck**, R Aras, L Li, C L'Heureux, P Lu, J West (2017). STEM-ming the Tide: Predicting STEM attrition using student transcript data. *Special Interest Group on Knowledge Discovery and Data Mining's (KDD's) Workshop on Machine Learning in Education*. [↗](#)

**L Aulck**, N Velagapudi, J Blumenstock, J West (2016). Predicting Student Dropout in Higher Education. *International Conference on Machine Learning's (ICML's) Workshop on Data for Good*. [↗](#)

**L Aulck**, PW Johnson, RP Ching (2013). Ex Vivo Biomechanics of Bus Driver Whole Body Vibration Exposures in the Lumbar Spine. *International Research Council on Biomechanics of Injury (IRCOBI) Conference Proceedings*. [↗](#)

**L Aulck**, PW Johnson, RP Ching (2013). Biomechanical Effects of Whole-Body Vibration Exposures on the Lumbar Spine. *Association of Canadian Ergonomists (ACE) Conference Proceedings*.

JH Kim, **L Aulck**, M Zigman, JT Dennerlein, PW Johnson (2015). Reduced Exposure to Whole Body Vibration Improves Low Back Pain Among Professional Truck Drivers: A Randomized Controlled Trial Study. *Proceedings of the 19th Triennial Congress of the International Ergonomics Association*. [↗](#)

- O Thamsuwan, **L Aulck**, K Galvin, PW Johnson (2015). Characterizing Repetitive Upper Arm Motions in Apple Harvesting. *Proceedings of the 19th Triennial Congress of the International Ergonomics Association*. [↗](#)
- JH Kim, **L Aulck**, M Hughes, M Zigman, J Cavallari, JT Dennerlein, PW Johnson (2015). Whole Body Vibration Exposures in Long-haul Truck Drivers. *Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting*. [↗](#)
- JH Kim, **L Aulck**, M Zigman, JT Dennerlein, PW Johnson (2015). The Effects of an Engineering Intervention to Reduce Whole Body Vibration on Self-reported Low Back Pain: A Randomized Controlled Trial Study.. *The 31st International Congress on Occupational Health*. [↗](#)
- JH Kim, **L Aulck**, D Trippany, PW Johnson (2014). Evaluation of Contact Pressure and Biomechanical Exposures on Different Work Surface Hardness. *Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting*. [↗](#)
- O Thamsuwan, **L Aulck**, K Galvin, PW Johnson (2014). Comparison of Exposure to Repetitive Upper Arm Motions and Non-neutral Upper Arm Postures between Apple Harvesting with Ladders and Mobile Platforms. *Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting*. [↗](#)
- JH Kim, **L Aulck**, O Thamsuwan, MC Bartha, CA Harper, PW Johnson (2013). The Effects of Touch Screen Virtual Keyboard Key Sizes on Typing Performance, Typing Biomechanics and Muscle Activity. *Proceedings of the 4th International Conference on Digital Human Modelling and Applications in Health, Safety, Ergonomics, and Risk Management*. [↗](#)
- JH Kim, **L Aulck**, PW Johnson (2012). Are There Differences in Muscle Activity, Subjective Discomfort, and Typing Performance Between Virtual and Conventional Keyboards? *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. [↗](#)