Lovenoor (Lavi) Aulck

laulck@uw.edu | www.lovenooraulck.com

Professional Experience

Data Scientist Sep 2019 - Present
University of Washington Office of Planning and Budgeting Seattle, WA
Institutional Data and Analysis Team

Guest Lecturer Sep 2019 - Present
University of Washington Information School Seattle, WA
Graduate and Undergraduate Instruction

Education

PhD in Information Science 2019
University of Washington, Seattle, WA
Dissertation: Leveraging Institutional Data to Examine the Freshman Experience Using Machine Learning and Causal Inference Methods; Advisor: Jevin West

MS in Bioengineering 2012
University of Washington, Seattle, WA
Thesis: Ex Vivo Biomechanical Testing to Examine the Etiology of Low Back Pain as a Result of Whole Body Vibration; Advisor: Randal P. Ching

BS in Bioengineering (cum laude) 2011
University of Washington, Seattle, WA

BA in International Studies (cum laude) 2011
University of Washington, Seattle, WA

Fellowships & Internships

Summer Data Science Internship Jun 2018 - Sep 2018
Paccar Inc. Renton, WA
Information Technology Division

Summer Data Science Internship Jun 2017 - Sep 2017
University of Washington Office of Planning and Budgeting Seattle, WA
Institutional Data and Analysis Team

Summer Data Science Internship Jun 2016 - Sep 2016
Enlearn Seattle, WA
Research Team

Research Assistantship Sep 2015 - Jan 2016
Allen Institute for Artificial Intelligence Seattle, WA
Semantic Scholar Team

Summer Data Science Internship Jun 2015 - Sep 2015
Microsoft Research Redmond, WA
Internet Services Research Center

Whitaker International Research Fellowship Dec 2012 - Sep 2013
Vrije Universiteit (VU University) Amsterdam, Netherlands
MOVE Institute

Teaching

IMT 511: Intro to Data Programming; University of Washington, Seattle, WA
◦ Spring Quarter, 2021; Instructor
◦ Summer Quarter, 2021; Instructor

IMT 573: Data Science I; University of Washington, Seattle, WA
◦ Autumn Quarter, 2019; Instructor
◦ Autumn Quarter, 2021; Instructor (planned)
◦ Autumn Quarter, 2014; TA under Prof. Emma Spiro

IMT 575: Data Science III; University of Washington, Seattle, WA
◦ Spring Quarter, 2020; Instructor
◦ Spring Quarter, 2021; Instructor
◦ Spring Quarter, 2022; Instructor (planned)
◦ Spring Quarter, 2016; TA under Prof. Jevin West

INFO 201: Technical Foundations of Informatics; University of Washington, Seattle, WA
◦ Summer Quarter, 2021; Instructor
◦ Summer Quarter, 2020; Instructor

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

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

Volunteer Data Scientist Sep 2017 - Dec 2017
Central Puget Sound Higher Education Capacity Study Seattle, WA
Assisting with data analysis and visualization

Research Engineer Sep 2013 - Sep 2014
University of Washington Seattle, WA
Department of Environmental and Occupational Health Sciences

Consultant Sep 2013 - Dec 2013

Amazon, Inc. Seattle, WA
Fire Phone Development

Links

- Google Scholar Profile
- ResearchGate Profile

Refereed Journal Publications

L Aulck, J Malters, C Lee, G Mancinelli, A Lau, M Sun, J West (2021). Helping Students FIG-ure It Out: A Large-Scale Study of Freshmen Interest Groups and Student Success. *AERA Open*.

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

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 Vasan, 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*.