

Lauren N. Strand

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Contact Information

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Education

Comparative Health Outcomes, Policy, and Economics (CHOICE) Institute, 2016-2020
University of Washington, Seattle, WA (est.)
Major: Pharmaceutical Outcomes Research & Policy
Degree: PhD Student

University of Washington, Seattle, WA 2014-2016
Major: Epidemiology
Degree: MS

Wellesley College, Wellesley, MA 2006-2010
Major: Neuroscience
Degree: BA, *cum laude* & Phi Beta Kappa

Research & Professional Experience

Research Student, WOOPH Study, Psychiatry and Behavioral Sciences, University 2018 -
of Washington, Seattle, WA
(Advisors: Anirban Basu, Mark Sullivan [PI])

- Conducting analyses of Washington State prescription drug monitoring program (PDMP) opioid prescribing data

Research Fellow, Washington Research Foundation, Seattle, WA 2018 -
(Advisor: Lotte Steuten)

- Conducting early health technology assessment in idiopathic pulmonary fibrosis

Research Assistant, CHOICE Institute, University of Washington, Seattle, WA (Advisor: Ryan Hansen)	2017- 2018
Health Economics and Outcomes Research Consultant, Veritech Corporation, Seattle, WA	2017-
Research Student, MESA Study, Cardiovascular Health Research Unit, University of Washington, Seattle, WA (Advisors: Chris Delaney, Susan Heckbert)	2015-2016
<ul style="list-style-type: none"> • Thesis work: designed and implemented a pharmacoepidemiologic study of statin use and left ventricular structure and function in the Multi-Ethnic Study of Atherosclerosis (MESA) • Authored abstracts and manuscript with a diverse team of epidemiologists, doctors, statisticians, and faculty 	
Research Assistant, STTR and HIV-CVD Studies, Collaborative Health Studies Coordinating Center, University of Washington, Seattle, WA (Advisors: Chris Delaney, Heidi Crane [PI])	2014-2016
<ul style="list-style-type: none"> • Led data harmonization efforts in the substance use, mental health, and antiretroviral therapy adherence domains with tasks including: data receipt, cleaning, harmonization, and dataset generation. • Developed codebooks for harmonized dataset deliverables. • Led research project on substance use and adherence research, including data analysis, dissemination, and coordinating participation of co-authors across twelve different institutions. 	
Research Associate II, Health Economics and Epidemiology, Evidera (formerly United BioSource Corporation), Lexington, MA	2010-2014
<ul style="list-style-type: none"> • Served as a project manager on diverse projects in multiple sclerosis, arthritis, Alzheimer’s Disease, and cancer; functioned as a key client contact and organizer of project teams. • Implemented systematic literature reviews and meta-analyses. • Authored manuscripts and other deliverables. 	
Intern, Vertex Pharmaceuticals, Cambridge, MA	2009

Teaching

Teaching Assistant, Practice of HTA in a Global Environment, Certificate in Health Economics and Outcomes Research [Online], Department of Pharmacy, University of Washington, Seattle, WA	Spring 2019
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Teaching Assistant, Economic Evaluation in Health And Medicine, Certificate in Health Economics and Outcomes Research [Online], Department of Pharmacy, University of Washington, Seattle, WA	Winter 2019
Teaching Assistant, Principles of Health Economics, Certificate in Health Economics and Outcomes Research [Online], Department of Pharmacy, University of Washington, Seattle, WA	Fall 2018
Teaching Assistant, Epidemiologic Data Analysis, Department of Epidemiology, University of Washington, Seattle, WA	Winter 2016

Professional & Leadership Experience

Student Representative, CHOICE Admissions Committee	2019 -
Reviewer, <i>AIDS Care</i>	2019 -
Reviewer, <i>Value in Health</i>	2019 -
Editor, Comparative Health Outcomes, Policy, and Economics (CHOICE) Institute Student Blog, University of Washington; https://choiceblog.org/	2019 -
Treasurer, International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Student Group, University of Washington Chapter	2018 -
Vice-commodore (vice-president), Washington Yacht Club (student sailing club), University of Washington	2018 -

Peer Reviewed Publications

Delaney JA, Nance RM, Whitney BM, Altice FL, Dong X, Perez Tejo ME, Matsuzaki M, Taxman FS, Chander G, Kuo I, Fredericksen R, **Strand LN**, Eron JJ, Geng E, Kitahata MM, Mathews WC, Mayer K, Moore RD, Saag MS, Springer S, Chandler R, Kahana S, Crane HM. Brief Report: Reduced Use of Illicit Substances, even without Abstinence, is associated with improved depressive symptoms among people living with HIV. *J AIDS*. July 2018;1. QAI.0000000000001803.

Strand L, Young R, Bertoni A, Bluemke D, Burke G, Lima J, Sotoodehnia N, Psaty B, McClelland R, Heckbert S, Delaney J. New statin use and left ventricular structure: Estimating long-term associations in the Multi-Ethnic Study of Atherosclerosis (MESA). *Pharmacoepidemiol Drug Saf*. January 2018. doi:10.1002/pds.4389.

Strand L, Adamson B, Delaney JA, Basu A. The Good, the Bad, and the Ugly: Reminders About Propensity Scores. Value and Outcomes Spotlight. 2017;(December):21-22.

Chandler R, Gordon MS, Kruszka B, **Strand L**, Altice F, Beckwith C, Biggs M, Cunningham W, Delaney C, Flynn P, Golin C, Knight K, Kral A, Kuo I, Lorvick J, Nance R, Ouellet L, Rich J, Sacks S, Seal D, Spaulding A, Springer S, Taxman F, Wohl D, Young J, Young R, Crane H. Cohort profile: seek, test, treat and retain United States criminal justice cohort. Subst Abuse Treat Prev Policy. 2017;12(1):24. doi:10.1186/s13011-017-0107-4.

Özer Stillman I, **Strand L**, Chang J, Mohamed AF, Fahrback K, Tranbarger Freier KE. The relationship between overall survival (OS) and progression-free survival (PFS) in gastrointestinal stromal tumor (GIST). Clin Cancer Res. 2015; 21(2): 295-302.
<http://clincancerres.aacrjournals.org/content/21/2/295.long>.

Presentations

Strand L, Mayer J, Rosenthal M, Russo J, Sullivan M, Sutton A, Withers S, Basu A. A remedy for despair? Short-term changes in economic conditions and opioid prescribing in Washington State. Accepted to the International Society for Pharmacoeconomics and Outcomes Research Annual Conference in May 2019, New Orleans, LA. [Poster]

Strand L, Zimmermann M, Carlson J, Hansen R. Cost-utility of early versus delayed treatment with interferon beta-1b in clinically isolated syndrome from a United States payer perspective. Western Pharmacoeconomics and Outcomes Research Conference, September 2017, Albuquerque NM. [Podium]

Strand L, Bertoni A, Bluemke D, Lima J, Psaty B, Heckbert S, Delaney J, McClelland R. The use of propensity score matching to estimate the association between new statin use and left ventricular structure: in the Multi-Ethnic Study of Atherosclerosis (MESA). Accepted to the 33rd International Conference on Pharmacoepidemiology and Therapeutic Risk Management, August 2017, Montreal Canada.

Perez Trejo M, **Strand L***, Nance R, Kruszka B, Altice F, Beckwith C, Chandler R, Cleland C, Crane H, Cunningham C, Cunningham W, Delaney J, Feaster D, Kahana S, Kuo I, Metsch L, Riley E, Wechsberg W, Kahana S, Springer S. The role of gender as an effect measure modifier in the Seek, Test, Treat, Retain (STTR) HIV Consortium: evaluating the relationship between antiretroviral adherence and poly-substance use. Accepted to the 33rd International Conference on Pharmacoepidemiology and Therapeutic Risk Management, August 2017, Montreal Canada.* Co-first authors.

Strand L, Zimmermann M, Carlson J, Hansen R. Cost-utility of early versus delayed treatment with interferon beta-1b in clinically isolated syndrome from a United States payer perspective.

Accepted to the International Society for Pharmacoeconomics and Outcomes Research Annual Conference in May 2017, Boston MA. [Top Abstract]

Strand L, Young R, Delaney JA, Bertoni A, Bluemke D, Burke G, Lima J, Sotoodehnia N, Psaty B, Heckbert S, McClelland R. New statin use and left ventricular structure: estimating long-term associations in the Multi-Ethnic Study of Atherosclerosis (MESA). Presented at the 32nd International Conference on Pharmacoepidemiology and Therapeutic Risk Management, August 2016, Dublin, Ireland

Mackesy-Amiti M, **Strand L**, Nance R, Chandler R, Cunningham W, Riley E, Cunningham C, Cleland C, Metsch L, Feaster D, del Rio C, Beckwith C, Kuo I, Kurth A, Altice Frederick, Kruszka B, Springer S. An example of exposure heterogeneity when pooling epidemiologic studies for meta-analysis of antiretroviral medication adherence. Presented at the 32nd International Conference on Pharmacoepidemiology and Therapeutic Risk Management, August 2016, Dublin, Ireland

Strand L, Nance R, Chandler R, Cunningham W, Riley E, Mehta S, Altice F, Wechsberg W, Cunningham C, Cleland C, Springer S. Initial data harmonization in the STTR HIV Consortium: evaluating the relationship between antiretroviral adherence and substance use. Presented at the Society for Epidemiologic Research Annual Conference, 18 June 2015, Denver, CO, USA.

Ashaye, AO, Travers KU, **Strand L**, Olsson K, Di Tanna GL, Booth K, Styren S, Brashear HR, Streffer J, Liu E. A Prospective, Systematic Literature Review and Pooled Regression Analyses to Evaluate Cerebrospinal Fluid (CSF) Phosphorylated Tau (p-tau) and Total Tau (t-tau) as Biomarkers of Alzheimer's Disease Progression. Presented at the Alzheimer's Association International Conference (AAIC), 12-17 July 2014, Copenhagen, Denmark.

Ashaye, AO, Travers KU, **Strand L**, Olsson K, Di Tanna GL, Wyman BT, Booth K, Styren S, Brashear HR, Einstewin S, Novak G, Liu E. A Prospective, Systematic Literature Review and Pooled Regression Analyses to Evaluate Global and Regional Brain Volumes by Structural MRI as Biomarkers of Alzheimer's Disease (AD) Progression. Presented at the Alzheimer's Association International Conference (AAIC), 12-17 July 2014, Copenhagen, Denmark.

Ashaye, AO, Travers KU, **Strand L**, Di Tanna GL, Wyman BT, Booth K, Styren S, Brashear HR, Margolin R, Schmidt M, Liu E. A Prospective, Systematic Literature Review and Pooled Regression Analyses to Evaluate Brain Amyloid by Positron Emission Tomography (PET) Imaging as A Biomarker of Alzheimer's Disease (AD) Progression. Presented at the Alzheimer's Association International Conference (AAIC), 12-17 July 2014, Copenhagen, Denmark.

Xu Y, Martin AL, Ross S, Knopf KB, **Strand L**, Iqbal SU, Joulain F, Jasso Mosqueda JG, Fahrback K. Second-Line Treatment of Metastatic Colorectal Cancer (mCRC): A Systematic Literature Review (SLR) and Feasibility Assessment of Conducting Indirect Treatment Comparison (ITC) Analysis. Presented at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 16th Annual European Congress, 2-6 November 2013 Dublin, Ireland.

Fahrback K, **Strand L**, Martin A, Huelin R, Kim E, Goodin D, Raimundo K, Cutter G. Mortality in multiple sclerosis: a systematic literature review and meta-analysis. Presented at the 5th Cooperative Meeting of the Consortium of Multiple Sclerosis Centers (CMSC) and Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS). May 29-June 1, 2013. Orlando, FL.

Ganz M, **Strand L**, Kongs JH. Treatment patterns and treatment restrictions of patients with type 2 diabetes receiving care from home healthcare agencies, skilled nursing facilities, and veterans affairs settings in the US. Presented at the ISPOR 17th Annual International Conference, 5 June 2011 Washington, DC.

Honors & Awards

2019-2020 Magnuson Scholarship	April 2019- May 2020
2019 Rubenstein Scholarship	February 2019
Attendee to National Bureau of Economics Research (NBER) Health Economics Bootcamp, Boston, MA	December 4-6, 2018
Washington Research Foundation Research Fellowship, Seattle, WA	July 2018 –
Louis Garrison Sr. and Marilyn Garrison Endowed Prize in Health Policy and Economics for An Outstanding Research Paper	May 2018
ISPOR 22nd Annual International Meeting Research Presentation Award Finalist	May 2017
Graduate School of Pharmacy Top Scholar, University of Washington	Fall 2016
Eli Lilly Endowed Pre-doctoral Fellowship	2016-2017
ICPE 32 nd International Conference, Spotlight Session	August 2016

Additional Training

National Bureau of Economics Research (NBER) Health Economics Bootcamp, Boston, MA	December 4-6, 2018
Workshops: Organizational economics, industrial organization, health insurance, behavioral economics	

International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 22nd Annual International Meeting, Boston, MA Workshops: Applications in Using Large Databases; Budget Impact Analysis I: a 6-step Approach	May 20- 2014, 2017
32 nd International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), Dublin, Ireland Workshops: Pharmacovigilance and Signal Detection, Regulatory Pharmacoepidemiology, Introduction to Therapeutic Risk Management Programs	August 25- 28, 2016
Society for Epidemiologic Research (SER) 48 th Annual Meeting, Denver, CO Workshops: Estimating non-parametric propensity score and inverse probability of treatment weights when drawing causal inferences with observational data; Methods for parametric and semiparametric inference in epidemiology; Estimation and interpretation: introduction to parametric and semi-parametric estimators for causal inference	June 16-19, 2015
University of Washington Summer Institute in Statistics and Modeling in Infectious Diseases, Seattle, WA Causal Inference Module	July 6-8, 2015
Harvard Extension School, Cambridge, MA Graduate Courses: Introduction to Epidemiology, Biotechnology in Drug Development	2010-2012
Edward Tufte 1-day Course, Boston, MA Course: Presenting Data and Information	2011
Chinese Institute of Language & Arts, Boston, MA Course: Introduction to Mandarin Language	2012

Other Organizations

International Society for Pharmacoepidemiology (ISPE)	2016-2017
Society for Epidemiologic Research (SER)	2014- 2016

Ongoing & Past Research Support

Magnuson Scholarship

Rubenstein Scholarship

NIH/NIDA (U01) DA037702 (R Kronmal/H Crane) 06/30/2015-03/28/2016

Seek, test, treat, and retain data harmonization coordinating center (STTR DCC)

The purpose of the STTR DCC is to coordinate and support the use of an integrated harmonized data set to test the effectiveness of STTR paradigm and to improve understanding of the intersection of HIV infection, drug abuse, and the HIV treatment cascade.

Role: Research Assistant/Analyst

NIH (R21) R21HL120394-01 (JA Delaney/R Kaplan) 07/22/2013-06/30/2015

Title: CVD and inflammation across the lifespan in HIV infected adults and children

Major goals: To merge a wide range of HIV-infected cohorts and look at how sub-clinical CVD and inflammation markers differ, relative to uninfected controls, across the lifespan. The goal is to better understand the evolution of increased CVD in HIV-infected participants relative to the normal course of the disease.

Role: Research Assistant

References

Ryan Hansen, PhD, Department of Pharmacy, Comparative Health Outcomes Policy & Economics (CHOICE) Institute, H375 Health Science Building, Seattle, WA 98195-7630, email: rhansen@uw.edu

Joseph A "Chris" Delaney, PhD, Department of Epidemiology, Collaborative Health Studies Coordinating Center, 6200 NE 74th Street, Seattle, WA 98105. Email: jacd@uw.edu

Marissa Blieden, MS, Health Economics and Epidemiology, Evidera, 430 Bedford Street, Suite 300, Lexington, MA 02420. Phone: (781) 960-0315, email: marissa.blieden@evidera.com

Kyle Fahrback, PhD, Biostatistics, Evidera, 430 Bedford Street, Suite 300, Lexington, MA 02420. Phone: (781) 960-0245, email: kyle.fahrback@evidera.com