

Ernesto Ulloa Pérez

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Education

PhD, Biostatistics

University of Washington, *Seattle, WA*

Dissertation Advisors: Marco Carone, PhD & Alex Luedtke, PhD

Expected degree date: Fall 2021

BS, Applied Mathematics

Instituto Tecnológico Autónomo de México (ITAM), *Mexico City*

Graduated with Highest Honours

2014

Research Interests

Causal inference; propensity score methods; semi-parametric efficiency theory; vaccine post-marketing safety studies; sequential surveillance methods; science communication

Research Experience

Research Assistant

Kaiser Permanente Washington Health Research Institute, *Seattle, WA*

2015–Present

Contacts: Jennifer Nelson, Senior Investigator & Director of Biostatistics, KPWHRI

Yates Coley, Assistant Investigator, KPWHRI

Kai Yeung, Assistant Investigator, KPWHRI

Fred Hutchinson Cancer Research Center, *Seattle, WA*

Summer 2016, Summer 2018

Contact: Ruth Etzioni, Full Member, Public Health Sciences Division

National Institute of Genomic Medicine, *Mexico City*

2014–2015

Contact: Claudia Rangel-Escareño, P.I. Computational & Integrative Genomics, INMEGEN

National Cancer Institute of Mexico, *Mexico City*

2014–2015

Contact: Claudia Reynoso Noverón, Assistant Investigator, INCan

Aalto University, *Espoo, Finland*

Summer 2012

Contact: Aki Vehtari, Associate Professor, Aalto University

Statistical Consultant

Statistical Consulting Services, University of Washington, *Seattle, WA*

March-June 2018

Contact: Marco Carone, Assistant Professor of Biostatistics, University of Washington

Statistical Analyst

United Nations Development Program, *Mexico City*

2011–2013

Contact: Lilia Leticia Ramírez-Ramírez, Assistant Researcher, CIMAT

Teaching Experience

- Teaching Assistant, University of Washington, Advanced Regression Methods for Independent Data. 2017
- Lecturer ITAM, Applied Statistics I: Exploratory Data Analysis and Sampling. *Fall, 2014 & Spring, 2015*
- Teaching Assistant, ITAM, Statistics Student Faculty. 2012-2013

Research Publications

1. **Ulloa-Pérez**, Marco Carone, Alex Luedtke, Improved Matching via Augmented Propensity Score Estimation. *Manuscript in preparation (available upon request)*

2. Jennifer C. Nelson, **Ulloa-Pérez**, Jennifer Bobb & Judith C Maro. (2019) Leveraging the entire cohort in drug safety monitoring: A review of sequential surveillance methods that use regression or weighting to control confounding in a rare event setting. *Journal of Clinical Epidemiology*. PMID: 31108199
3. Kaur, D., **Ulloa-Pérez**, E., Gulati, R., & Etzioni, R. (2018). Racial disparities in prostate cancer survival in a screened population: Reality versus artifact. *Cancer*. PMID: 29370459
4. **Ulloa-Pérez**, E., Mohar-Betancourt, A., & Reynoso-Noverón, N. (2016). Estimation of the Cost-Effectiveness of Breast Cancer Screening Using Mammography in Mexico Through a Simulation. *Rev Invest Clin*, 184-91. PMID: 27623037
5. Regional Human Development Report Citizen Security with a Human Face: Evidence and Proposals for Latin America 2013-2014, United Nations Development Program

Presentations

1. ENAR Conference of the International Biometrics Society, *Remote* *March 2020*
Improved Matching via Augmented Propensity Score Estimation
2. University of Washington, Department of Biostatistics Student Seminar, *Seattle, WA* *May 2019*
Challenges that Arose while doing Collaboration as a Junior Statistician
3. HIV Vaccine Trials Network, *Seattle, WA* *August 2019*
Updates on Statistical Analysis for HIV-1 Risk Prediction in KwaZulu-Natal via SuperLearner
4. WNAR Conference of the International Biometrics Society, *Portland, OR* *June 2019*
Improved Matching via Augmented Propensity Score Estimation
5. Vaccine Safety Datalink Annual Meeting, *Denver, CO* *April 2019*
Whole Cohort Methods for Vaccine Surveillance in a Multi-site Rare Event Setting
6. University of Washington, Department of Biostatistics Student Seminar, *Seattle, WA* *May 2019*
Improved Matching via Augmented Propensity Score Estimation
7. University of Washington, Causal Inference Working Group, *Seattle, WA* *November 2018*
Optimal Matching for Observational Studies
8. WNAR Conference of the International Biometrics Society, *Edmonton, CA* *June 2018*
Assessing Propensity Score Methods in Rare Outcome & Exposure settings
9. Department of Biostatistics Stat-Northwest Conference *Seattle, WA* *January 2018*
The Impact of Obesity on the Risk of Hospitalization

Service

- Department of Biostatistics, University of Washington, *Seattle, WA* *Sept 2018-current*
Equity, Diversity & Inclusion Committee, Alumni Committee
- Stat-Northwest Conference in Biostatistics, *Seattle, WA* *April 2018*
Invited Panelist
- International Conference of Health Policy Statistics, *Charleston, S.C.* *January 10-12 2018*
Invited Session Chair:
Improving the Use of Propensity Score Methods in Large Health Care Databases with Rare Outcomes
- Instituto Tecnológico Autónomo de México, *Mexico City* *2011-2013*
Editor and Fundraiser, *Laberintos & Infinitos*
Student-run mathematics magazine for the general public

Science Communication

- Pacific Northwest Communicating Science Conference, *Seattle, WA* *Sept 2018-July 2019*
Organizer
- Pacific Northwest Communicating Science Conference, *Seattle, WA* *June 2018*
Participant
- Martínez A, **Ulloa EJ**, Solís J, López RI. "Small Polygon with Maximum Area" *Laberintos & Infinitos*, 2013

Scholarships & Awards

<i>Top Scholar Award</i> UW Department of Biostatistics, <i>Seattle, US</i> . Recruitment award for promising applicants	2015
<i>SISG Scholarship</i> University of Washington, <i>Seattle, US</i> . Summer Institute in Statistical Genetics. Received funding for three courses	2014
<i>PROBEI Scholarship</i> Programa de Becas de Inicio a la Investigación, <i>Mexico City</i> Research stipend award	2014
<i>CONACYT Scholarship</i> Consejo Nacional de Ciencia y Tecnología, <i>Mexico City</i> Research assistant scholarship	2014
<i>ASci Internship</i> University of Aalto, <i>Espoo, Finland</i> Received funding for research internship	2012

Software & Programming Skills

Advanced: R, LaTeX

Intermediate: Stata, MATLAB

Basic: Java, C++, Html, SAS, SPSS

Contributed to GPStuff MATLAB Toolbox

Other Activities

- Memberships:
 - American Statistical Association (ASA)
 - Western North American Region (WNAR) International Biometric Society
- Semi-parametric Reading Group Organizer *Jan-June, 2019*
- Fluent in Spanish. Intermediate level in French.
- Enjoy running, hiking, playing soccer, and chess.