

MICHAEL SEO

PhD Student in Biostatistics

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EXPERIENCE

PhD Student in Biostatistics

Institute of Social and Preventive Medicine, University of Bern

2019 – Present Bern, Switzerland

- Developed models that combine individual patient data from randomized controlled trials and non-randomized studies when aiming to predict outcomes for a set of competing medical interventions.
- Compared in simulations the standard approach to individual patient data meta-analysis (linear mixed effects model with random effects on treatment and treatment-covariate interactions included) with five regression methods that perform shrinkage.

Biostatistician

LLX Solutions

2018 - 2019 Waltham, MA

- Drafted statistical analysis plans which address study designs and methodologies on how to evaluate efficacy and safety of the new drug in development.
- Extensively used SAS DATA Step and PROC SQL to transform raw clinical data into datasets that meet FDA standards.

Research Associate

Center for Evidence Synthesis in Health, Brown University

2015 - 2018 Providence, RI

- Developed an R package for Bayesian network meta-analysis which allows simultaneous comparison of multiple treatments.
- Developed a statistical tool to analyze single patient (N of 1) trial and applied it to determine the effectiveness of carbohydrate diet for patients with inflammatory bowel disease.

Quantitative Analyst

In4mation Insights

2015 Summer Boston, MA

- Analyzed the intent and behavior questionnaires from Altria and developed a ranking system for their e-vapor products.

Research Assistant

Department of Statistics, Stanford University

2014 - 2015 Stanford, CA

- Developed a Shiny-based web interface to the Statistical Analysis of Microarrays (SAM) and Prediction Analysis of Microarrays (PAM) R packages

EDUCATION

Ph.D. Biostatistics

University of Bern

2019 - 2022 Bern, Switzerland

M.S. Statistics

Stanford University

2012 - 2014 Stanford, CA

- GPA: 3.7/4.0

B.S. Statistics

Duke University

2007 - 2011 Durham, NC

- GPA: 3.7/4.0
- Graduation with High Distinction

PROGRAMMING

R Python SQL SAS C++
Java LaTeX

STATISTICS

Bayesian Methods Machine Learning
Meta Analysis Multilevel Modelling
Causal Inference

LANGUAGES

Korean English

CITIZENSHIP

USA