

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 treatments
- Compared variable selection and shrinkage methods for estimating patient-specific treatment effects in individual patient data meta-analysis

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 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 trials 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.

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

SAS

SQL

Spark

C++

Java

LaTeX

STATISTICS

Bayesian Methods

Machine Learning

Meta Analysis

Multilevel Modelling

Multiple Imputation

Causal Inference

LANGUAGES

Korean

English

CITIZENSHIP

USA