

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.

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