# **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 simulataneous 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**

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** 

P Bern, Switzerland

### M.S. Statistics

## Stanford University

**2012 - 2014** 

Stanford, CA

• GPA: 3.7/4.0

### B.S. Statistics

# **Duke University**

**2007 - 2011** 

Ourham, NC

• GPA: 3.7/4.0

Graduation with High Distinction

### **PROGRAMMING**



### **STATISTICS**

Bayesian Methods Machine Learning
Meta Analysis Multilevel Modelling
Causal Inference

# **LANGUAGES**

Korean English



## CITIZENSHIP

**USA**