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

📅 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
Multilevel Modelling   Meta Analysis
Causal Inference

LANGUAGES

Korean   ●●●●●
English   ●●●●○

CITIZENSHIP

USA