# MICHAEL SEO

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in LinkedIn 

Personal Website

Output

Description:

### **EDUCATION**

University of Bern, Switzerland
Bern, Switzerland

Ph.D. Biostatistics and Epidemiology

2019 - 2022

Brown University
M.A. Biostatistics; GPA: 3.6/4.0

Rhode Island, USA 2015 - 2017

California, USA

M.S. Statistics; GPA: 3.7/4.0

Stanford University

2012 - 2014

Duke University

North Carolina, USA

B.S. Statistics, Graduation with High Distinction; GPA: 3.7/4.0

2007 - 2011

#### WORK EXPERIENCE

Roche 2022 - Present

Access Evidence Lead Basel, Switzerland

- Drafted indirect treatment comparisons (ITC) statistical analysis plans and ITC reports needed for the HTA reimbursement submissions.
- Performed matching-adjusted indirect comparison (MAIC) for comparisons with only aggregate summaries of the comparator studies and inverse probability of treatment weighting and matching methods for studies with full individual patient data.
- Developed an R package for MAIC which implements comprehensive analysis and visualization tools, including anchored comparisons and bootstrap variance estimators.

## Institute of Social and Preventive Medicine, University of Bern

2019 - 2022

Ph.D. Student in Biostatistics and Epidemiology

Bern, Switzerland

- Compared variable selection and shrinkage methods for estimating patient-specific treatment effects in individual patient data meta-analysis.
- Developed models that combine individual patient data from randomized controlled trials and observational studies when aiming to predict outcomes for a set of treatments.
- Explored methods of addressing the systematically missing predictors problem, when the aim is to build a prediction model using data from multiple studies.

LLX Solutions 2018 - 2019

 $Biostatistician \hspace{1.5cm} Massachusetts, \hspace{0.1cm} USA$ 

- Drafted statistical analysis plans for Phase I trials which address study designs and methods on how to evaluate safety of the new drug in development.
- Transformed raw clinical data into datasets that meet FDA standards using PROC SQL.

#### Department of Biostatistics, Brown University

2015 - 2017

Ph.D. Student in Biostatistics

Rhode Island, USA

- Developed an R package for Bayesian network meta-analysis which allows simultaneous comparison of multiple treatments.
- Developed a Bayesian statistical tool to analyze single patient trials with crossover design and applied it to give individualized recommendations of carbohydrate diet for patients with inflammatory bowel disease.

SKILLS

Programming: R, Python, SAS

Statistics: indirect treatment comparison, network meta-anlaysis, causal inference