Michael Seo

+41 798350405 mikejseo7[at]gmail.com LinkedIn Personal Website

Education

University of Bern **Bern, Switzerland**
Ph.D. Epidemiology and Biostatistics *2019 - 2022*

Brown University **Rhode Island, USA**
M.A. Biostatistics; GPA: 3.6/4.0 *2015 - 2017*

Stanford University **California, USA**
M.S. Statistics; GPA: 3.7/4.0 *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 (HTA Statistician) *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 Epidemiology and Biostatistics *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 *Massachusetts, 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