Michael Seo

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Education

University of Bern **Bern, Switzerland**
Ph.D. Biostatistics and Epidemiology *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 statistical analysis plans and reports needed for the HTA reimbursement submissions.
- Worked with Phase II/III clinical trials data to implement inverse probability weights methods and network meta-analysis.
- Developed an R package (maicplus) for matching-adjusted indirect comparison which adjusts for differences in baseline characteristics between treatment groups when only aggregate data is available for the comparator study.

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 *Massachusetts, USA*

- Drafted statistical analysis plans for Phase I trials to evaluate safety of the new drug in development.
- Transformed clinical data into datasets that meet FDA standards using clinical SAS programming.

Department of Biostatistics, Brown University **2015 - 2017**
Ph.D. Student in Biostatistics *Rhode Island, USA*

- Developed an R package (bnma) 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