

Michael Seo

CONTACT INFORMATION	Personal Website: mikejseo.github.io	Email: swj8874[at]gmail.com
RESEARCH INTERESTS	Bayesian methods; (network) meta-analysis; causal inference	
EDUCATION	Ph.D Biostatistics and Epidemiology, University of Bern, 2019-2022 M.S Statistics, Stanford University (GPA: 3.7), 2012-2014 B.S Statistics, Graduation with High Distinction, Duke University (GPA: 3.7), 2007-2011	
EMPLOYMENT	HTA Statistician , Roche, 2022-Present Ph.D Student in Biostatistics and Epidemiology , Institute of Social and Preventive Medicine, University of Bern, 2019-2022 Biostatistician , LLX Solutions, 2018-2019 Ph.D Student in Biostatistics , Center for Evidence Synthesis in Health, Brown University, 2015-2017 Quantitative Analyst , In4mation Insights, 2015 Summer Research Assistant , Department of Statistics, Stanford University, 2014-2015 Research Assistant , Children's Environmental Health Initiative, Duke University, 2011-2012	
PUBLICATIONS	Seo M , Furukawa TA, Karyotaki E, Efthimiou O (2023). Developing prediction models when there are systematically missing predictors in individual patient data meta-analysis. <i>Research Synthesis Methods</i> , 14, 455-467. Efthimiou O, Hoogland J, Debray TPA, Seo M , Furukawa TA, Egger M, White IR (2023). Measuring the performance of prediction models to personalize treatment choice. <i>Statistics in Medicine</i> , 42, 1188-1206. Yoshida K, Seo M , Luo Y, Sahker E, Cipriani A, Leucht S, Iwatsubo T, Efthimiou O, Furukawa TA (2022). Personalized prediction of Alzheimer's disease and its treatment effects by donepezil: an individual participant data meta-analysis of eight randomized controlled trials. <i>Journal of Alzheimer's disease</i> , 89, 1143-1157. Seo M , Debray TPA, Ruffieux Y, Gsteiger S, Bujkiewicz S, Finckh A, Egger M, Efthimiou O (2022). Combining individual patient data from randomized and non-randomized studies to predict real-world effectiveness of interventions. <i>Statistical Methods in Medical Research</i> , 31, 1355-1373. Efthimiou O, Seo M , Karyotaki E, Cuijpers P, Furukawa TA, Schwarzer G, Rücker G, Mavridis D (2022). Bayesian models for aggregate and individual patient data component network meta-analysis. <i>Statistics in Medicine</i> , 41, 2586-2601. Seo M , White IR, Furukawa TA, Imai H, Valgimigli M, Egger M, Zwahlen M, Efthimiou O (2021). Comparing methods for estimating patient-specific treatment effects in individual patient data meta-analysis. <i>Statistics in Medicine</i> , 40, 1553-1573. Seo M , Furukawa TA, Veroniki AA, Pillinger T, Tomlinson A, Salanti G, Cipriani A, Efthimiou O (2021). The Kilim plot: A tool for visualizing network meta-analysis results for multiple outcomes. <i>Research Synthesis Methods</i> , 12, 86-95. Furukawa TA, Debray T, Akechi T, Yamada M, Kato T, Seo M , Efthimiou O (2020). Can personalized treatment prediction improve the outcomes, compared with the group average approach, in a randomized trial? Developing and validating a multivariable prediction model in a pragmatic megatrial of acute treatment for major depression. <i>Journal of Affective Disorders</i> , 274, 690-697. Khan MS, Khan AR, Khan AI, Seo M , Yasmin F, Usman MS, Moustafa A, Schmid CH, Kalra A, Ikram S (2020). Comparison of revascularization strategies in patients with acute coronary syndrome and multivessel coronary disease: A systematic review and network meta-analysis. <i>Catheterization and cardiovascular interventions</i> , 96, E447-E454.	

R PACKAGES	<p>Michael Seo (2022). bipd: Bayesian Individual Patient Data Meta-Analysis using 'JAGS'. R package version 0.3. https://CRAN.R-project.org/package=bipd.</p> <p>Michael Seo and Christopher Schmid (2020). bnma: Bayesian Network Meta-Analysis using 'JAGS'. R package version 1.5.0. https://CRAN.R-project.org/package=bnma.</p> <p>Robert Tibshirani, Michael Seo, Gil Chu, Balasubramanian Narasimhan and Jun Li (2018). samr: Significance Analysis of Microarrays. R package version 3.0. https://CRAN.R-project.org/package=samr.</p>
CONTRIBUTED PRESENTATIONS	<p>Developing prediction models when there are systematically missing predictors in an individual patient data meta-analysis. Joint Statistical Meeting (JSM), Seattle; August, 2021.</p> <p>bnma: Bayesian Network Meta-Analysis using 'JAGS'. Evidence Synthesis and Meta-Analysis in R Conference; January, 2021.</p> <p>Predicting real world effectiveness of interventions, combining individual patient data from multiple randomized and non-randomized studies. 41st Annual Conference of the International Society for Clinical Biostatistics (ISCB), Krakow; August, 2020.</p> <p>The Kilim plot: a tool for visualizing network meta-analysis results for multiple outcomes (poster). 41st Annual Conference of the International Society for Clinical Biostatistics (ISCB), Krakow; August, 2020.</p> <p>Comparing methods for variable selection in individual patient data meta-analysis. XXXIst Conference of the Austro-Swiss Region (ROeS) of the International Biometric Society, Lausanne; September, 2019.</p>
TEACHING ASSISTANTSHIP	<p>Applied Logistic Regression, University of Bern, 2021</p> <p>Prognostic Research: from Basics to Modelling, University of Bern, 2020, 2021</p> <p>Evidence Synthesis Methods, University of Bern, 2019</p> <p>Applied Regression Analysis (PHP 2511), Brown, Spring 2016</p> <p>Fundamentals of Probability and Statistical Inference (PHP 2515), Brown, Fall 2015</p> <p>Probability and Statistics Inference (STAT 103), Duke, Spring 2011</p> <p>Statistics (STAT 114), Duke, Fall 2010</p> <p>Probability and Statistics for Engineers (STAT 113), Duke, Spring 2010</p> <p>Probability (STAT 104), Duke, Fall 2009</p>
PROGRAMMING	R, Python, SAS
LANGUAGES	Korean, English