Michael Seo

Contact Information

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Research Interests

Bayesian methods; (network) meta-analysis; machine learning

Education

Ph.D. Biostatistics, University of Bern, 2019-2022 (Expected)
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

Ph.D. student in Biostatistics, Institute of Social and Preventive Medicine, University of Bern, Switzerland, 2019-Present

Biostatistician, LLX Solutions, Boston, 2018-2019

Research Associate, Center for Evidence Synthesis in Health, Brown University, 2015-2018

Research Assistant, Department of Statistics, Stanford University, 2014-2015

Publications

Seo M, Furukawa TA, Veroniki AA, Pillinger T, Tomlinson A, Salanti G, Cipriani A, Efthimiou O (2020). The Kilim plot: A tool for visualizing network meta-analysis results for multiple outcomes. *Research Synthesis Methods*, 1-10.

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. *Journal of Affective Disorders*, 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. *Catheterization and cardiovascular interventions*, 1-8.

R packages

Michael Seo and Christopher Schmid (2020). bnma: Bayesian Network Meta-Analysis using 'JAGS'. R package version 1.3.0. URL https://CRAN.R-project.org/package=bnma.

R. Tibshirani, **Michael J. Seo**, G. Chu, Balasubramanian Narasimhan and Jun Li (2018). samr: SAM: Significance Analysis of Microarrays. R package version 3.0. https://CRAN.R-project.org/package=samr.

Contributed Presentations

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.

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.

Teaching Experience

Teaching Assistant, Evidence Synthesis Methods, University of Bern, 2019
Teaching Assistant, Applied Regression Analysis (PHP 2511), Brown, Spring 2016
Teaching Assistant, Fundamentals of Probability and Statistical Inference (PHP 2515), Brown, Fall 2015
Teaching Assistant, Probability and Statistics Inference (STAT 103), Duke, Spring 2011
Teaching Assistant, Statistics (STAT 114), Duke, Fall 2010
Teaching Assistant, Probability and Statistics for Engineers (STAT 113), Duke, Spring 2010
Teaching Assistant, Probability (STAT 104), Duke, Fall 2009

Programming

R (Extensive), Python, SAS

Languages

Korean (Native), English (Fluent)

Citizenship

U.S.A