Burak Kürsad Günhan

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Experience

University Medical Center Göttingen

Göttingen, Germany

RESEARCH ASSOCIATE AND TEACHING ASSISTANT

Aug. 2016 - Present

 Responsibilities include methodological research in Bayesian statistics applied in early/translational clinical trials and (network) meta-analysis, statistical programming, and teaching. Also, working on a Phase Ib dose-escalation study for the safety of Vorinostat in patients with mild Alzheimer (ClinicalTrials.gov ID: NCT03056495).

Galapagos NV Mechelen, Belgium

BIOSTATISTICIAN INTERN Aug. 2019 - Oct. 2019

• Developed a shrinkage estimation method for phase II trials with multiple treatment schedules.

Novartis Pharma AG Basel, Switzerland

BIOSTATISTICIAN INTERN AT ONCOLOGY EARLY DEVELOPMENT

Aug. 2017 - Nov. 2017

- Developed a Bayesian method for simultaneously optimizing dose and schedule in phase I oncology dose-escalation trials.
- Implemented the developed method in Stan and R.

F. Hoffmann-La Roche AG

Basel, Switzerland

BIOSTATISTICIAN INTERN Mar. 2016 - Jun. 2016

· Implemented nonlinear mixed effect models and pharmacokinetic pharmacodynamic models in Stan.

Education

University Medical Center Göttingen

Göttingen, Germany

PhD in Biostatistics

Jan. 2017 - Dec. 2020

- Thesis: Bayesian methods for borrowing information in clinical drug development
- Supervisor: Prof. Dr. Tim Friede

University of Zurich, Switzerland

MSc in Biostatistics

Sept. 2013 - Jul. 2016

- Thesis: Network meta-analysis with integrated nested Laplace approximations
- Supervisors: Prof. Dr. Leonhard Held and Dr. Rafael Sauter

Bogazici University Istanbul, Turkey

BSC IN MATHEMATICS Sept. 2007 - Jul. 2012

Skills

Programming R, Git/Github, Shiny, BASH

Document preparationMEX, Rmarkdown, knitrBayesian inferenceWinBUGS/JAGS, Stan, INLA

OS platfrom Windows, Macintosh, Linux (Ubuntu)

Languages English (Fluent), Turkish (Native), German (Intermediate)

Publications

Shrinkage estimation for dose-response modeling in phase II trials with multiple dose regimens

B. K. Günhan, P. Meyvisch, T. Friede

Statistics in Biopharmaceutical Research (2020). URL: https://doi.org/10.1080/19466315.2020.1850519

A Bayesian time-to-event pharmacokinetic model for phase I dose-escalation trials with multiple schedules

B. K. Günhan, S. Weber, T. Friede

Statistics in Medicine (2020). URL: https://doi.org/10.1002/sim.8703

Sequential phase I dose-escalation trials with multiple schedules

B. K. Günhan, S. Weber, A. Seroutou, T. Friede

Under Review (2020). URL: https://arxiv.org/abs/1811.09433

DECEMBER 27, 2020 BURAK KÜRSAD GÜNHAN · RÉSUMÉ

Random-effects meta-analysis of few studies involving rare events

B. K. Günhan, C. Röver, T. Friede

Research Synthesis Methods (2019) PP. 1-17. URL: https://doi.org/10.1002/jrsm.1370

A design-by-treatment interaction model for network meta-analysis and meta-regression with integrated nested Laplace approximations B. K. Günhan, T. Friede, L. Held

Research Synthesis Methods 9.2 (2018) PP. 179-194. URL: https://doi.org/10.1002/jrsm.1285

Recent advances in methodology for clinical trials in small populations: the InSPiRe project

T. Friede, M. Posch, S. Zohar, and 19 others including B. K. Günhan

Orphanet Journal of Rare Diseases 13.1 (2018). URL: https://doi.org/10.1186/s13023-018-0919-y

Software packages

MetaStan: Bayesian Meta-Analysis via 'Stan'

DEVELOPER AND MAINTAINER 2018

https://CRAN.R-project.org/package=MetaStan

nmaINLA: An R package for fitting Bayesian network meta-analysis models using INLA

Developer and Maintainer 2017

https://CRAN.R-project.org/package=nmaINLA

Presentations

ORAL PRESENTATIONS

Workshop: Analysis of adverse events in the context of estimands

META-ANALYSIS OF ADVERSE EVENTS AND PRACTICALS IN R

Delayed due to Covid-19

Applied Bayesian Biostatistics Conference

MODEL-BASED META-ANALYSIS USING ARM-BASED MODELS

May. 2019

Heidelberg, Germany

Göttingen, Germany

Frankfurt, Germany

Barcelona, Spain

Fall Semester

Amsterdam, Netherlands

Lyon, France

Workshop of the IBS-DR working group "Bayes Methods"

Phase I dose-escalation trials with more than one dosing regimen

Dec. 2018

64. Biometrisches Kolloquium, International Biometric Society (German Region)

A DESIGN-BY-TREATMENT INTERACTION MODEL FOR NETWORK META-ANALYSIS AND META-REGRESSION WITH INTEGRATED

Mar. 2018

POSTER PRESENTATIONS

International Biometric Conference (IBC)

GUIDING PHASE I DOSE-ESCALATION TRIALS WITH MORE THAN ONE DOSING REGIMEN

Jul. 2018

Statisticians in the Pharmaceutical Industry (PSI)

META-ANALYSIS OF RARE EVENTS WITH FEW STUDIES

Jun. 2018

Novartis Biostatistics Conference Basel, Switzerland

GUIDING PHASE I DOSE-ESCALATION TRIALS WITH DOSE REGIMEN CHANGES (BEST POSTER AWARD)

Oct. 2017

Teaching.

Analysis of Time-to-Event data

MSc. in Applied Statistics, Georg-August University of Göttingen 2018/19, 2019/20

Introduction to Statistics Fall Semester

MSc. in Neuroscience, Georg-August University of Göttingen 2017/18, 2018/19, 2019/20, 2020/21

December 27, 2020 Burak Kürsad Günhan · Résumé