Burak Kürsad Günhan, PhD

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Experience.

Merck Healthcare KGaA Darmstadt, Germany

SENIOR BIOSTATISTICIAN

Jul. 2021 - Present

• Trial statistician in early development oncology.

University Medical Center Göttingen

Göttingen, Germany

RESEARCH ASSOCIATE AND TEACHING ASSISTANT

Aug. 2016 - Jun. 2021

· 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

MSc in Biostatistics

University Medical Center Göttingen

Göttingen, Germany

Sept. 2013 - Jul. 2016

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 Zurich, Switzerland

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

Bogazici University Istanbul, Turkey

Sept. 2007 - Jul. 2012 BSC IN MATHEMATICS

Skills

Programming R, Git/Github, Shiny, BASH **Document preparation** धा_FX, Rmarkdown, knitr **Bayesian inference** WinBUGS/JAGS, Stan, INLA

> OS platfrom Windows, Macintosh, Linux (Ubuntu)

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

Publications

Phase I dose-escalation oncology trials with sequential multiple schedules

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

BMC Medical Research Methodology (2021). URL: https://doi.org/10.1186/s12874-021-01218-9

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://DDI.ORG/10.1080/19466315.2020.1850519

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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

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

GMDS and CEN-IBS 2020 Online

SHRINKAGE ESTIMATION FOR DOSE-RESPONSE MODELING IN PHASE II TRIALS WITH MULTIPLE DOSE REGIMENS

Applied Bayesian Biostatistics Conference

Lyon, France MODEL-BASED META-ANALYSIS USING ARM-BASED MODELS May. 2019

Sept. 2020

Dec. 2018

Mar. 2018

Workshop of the IBS-DR working group "Bayes Methods" Göttingen, Germany

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

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

A DESIGN-BY-TREATMENT INTERACTION MODEL FOR NETWORK META-ANALYSIS AND META-REGRESSION WITH INTEGRATED NESTED LAPLACE APPROXIMATIONS.

POSTER PRESENTATIONS

International Biometric Conference (IBC) Barcelona, Spain

GUIDING PHASE I DOSE-ESCALATION TRIALS WITH MORE THAN ONE DOSING REGIMEN Jul. 2018

Statisticians in the Pharmaceutical Industry (PSI)

Amsterdam, Netherlands

META-ANALYSIS OF RARE EVENTS WITH FEW STUDIES Jun 2018

Teaching

Analysis of Time-to-Event data Fall Semester

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

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