Janick Georg Weberpals

Real World Data Scientist

Born 30 April 1989,
in Bruchsal, Germany

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LinkedIn Profile

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About me

Janick Weberpals, RPh, Ph.D., is a real world data (RWD) scientist with 8+ years of experience in the design and conduct of studies in large non-randomized healthcare databases in both industry and academia. He holds a pharmacy degree from Philipps-University Marburg, a board certification as specialized pharmacist in drug information and a Ph.D. in Epidemiology from the University of Heidelberg, Germany. He is interested in methods to analyze high-dimensional electronic healthcare databases and integrate data modalities (images, free text) using deep learning for the application to real-world problems in causal inference. He (co-) authored 20+ peer-reviewed high-impact publications and received several awards.

Skills

- R
- SQL
- Python
- Tensorflow, Keras
- SAS

Education

2018-2020 **Postdoctoral Fellowship** Data Science, Roche Innovation Center Munich
Deep learning on electronic health record (EHR) data

2015-2018 **Ph.D. Epidemiology** Medical Faculty, University of Heidelberg
Summa cum laude honors

2015-2018 **Board certification** German Cancer Research Center, Heidelberg
Specialized Pharmacist in Drug Information

2010-2015 **Registered Pharmacist (RPh)** College of Pharmacy, University of Marburg
Pharmaceutical Sciences (PharmD equivalent)

Professional Experience

2022- **Instructor in Medicine** Harvard Medical School, Boston, MA
Faculty member leading projects on multimodal healthcare database analytics and comparative effectiveness and safety research.

2022- **Associate Scientist** Brigham and Women's Hospital, Boston, MA
Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine.

2020-2022 **Data Scientist** Hoffmann-La Roche/Genentech, Basel, Switzerland
Lead on multiple health studies in oncology and neuroscience. Collaborated in cross-functional teams to validate ML/NLP algorithms to enhance data elements which supported clinical teams with regulatory drug applications. Contributed to R package development which increased speed and validity of real-world evidence projects.

2019-now **Adjunct lecturer** Medical Faculty, University of Heidelberg, Germany
Conceptualization and teaching of an introductory course on design and biases of epidemiological studies for Biostatistics M.Sc. students.

2018-2020 **Postdoctoral Fellow in Deep Learning on EHR** Roche, Munich, Germany
Development of deep learning methods to analyze large electronic health record (EHR) databases to optimize and complement clinical trials.

2015-2018 **Doctoral Researcher** German Cancer Research Center, Heidelberg, Germany
Analysis of large oncological database linkages by partnering with international cancer registries which resulted in 14 high-impact publications.

2014-2015 **Research Scholar** University of Florida, Gainesville, FL, USA
Contributed to a multidisciplinary project to develop a *predictive* risk model to identify adverse events among hospitalized patients.

Selected Awards & Honors

2018 Stephan-Weiland Award (German Society for Epidemiology)
2018 Advancement Award for best Ph.D. thesis in Epidemiology (German Association for Medical Informatics, Biometry and Epidemiology)
2017 Poster Award (Helmholtz International Graduate School)
2016 & 17 International Society for Pharmacoepidemiology (ISPE) Scholarship
2016 Fellow (Helmholtz International Graduate School)

Selected publications (Visit *janickweberpals.github.io/scholarship* for a full report)

Weberpals J, Becker T, Schmich F, Ruettinger D, Theis FJ, Bauer-Mehren A. Deep learning-based propensity scores for confounding control in comparative effectiveness research: a large-scale real-world data study. **Epidemiology** (2021).

Loureiro H, Becker T, Bauer-Mehren A, Ahmidi N, Weberpals J. Artificial Intelligence for Prognostic Scores in Oncology: a benchmarking study. **Frontiers in Artificial Intelligence** (2021).