

Curriculum Vitae of Prof. Dr. Werner Brannath

University of Bremen / Faculty for Mathematics and Computer Science
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Education

1986 – 1989	Physics at the University of Karlsruhe
1989 – 1993	Physics and Mathematics at the University of Vienna Diploma with distinction in Mathematics, November 1993
1993 – 1997	Doctorial program in mathematics, University of Vienna. Doctorial thesis with distinction, October 1997
April 2005	Habilitation in Biometry and Epidemiology

Professional experience

since 08/2010	Full Professor for Applied Statistics and Biometry at the University of Bremen Head of the Competence Center for Clinical Trials Bremen / Biometry Section
04/2005 – 07/2010	Associated Professor at Core Unit for Medical Statistics and Informatics, Section of Medical Statistics, Medical University of Vienna.
08/1998 – 03/2005	University Assistant / Assistant Professor at the Department of Medical Statistics at the University and Medical University of Vienna.
09/2001 – 10/2002	FWF Erwin Schrödinger Fellow at the Department of Statistics, Stanford University
04/1994 – 07/1998	Assistant at the Department of Statistics and Decision Support Systems at the University of Vienna.

Selected professional activities

Since 2024	Deputy member of the Ethics Committee of the University of Bremen
Since 2023	Chair of the (newly founded) Working Group on Public Relations of the German Region of the International Biometric Society (IBS-DR)
2021-2023	Associated editor of Biometrics
2018-2022	President and vice-president of the IBS-DR
Since 2015	Associated editor of the Biometrical Journal

Since 2014 Member of several DSMBs
 Since 2008 Reviewer for DFG and BMBF

Selected Funding

08/2023 – Subproject in DFG Research Unit FOR 5347 “Lifespan AI”
 01/2022 – Subproject in "Der Intelligente Digitale Leitlinien-Editor (IDEAL): Anwendung kausaler Inferenz zur Evidenzgewinnung mittels emulierter klinischer Studien". (AI Center for Health Care - UBremen Research Alliance)
 10/2016 – Subproject in DFG-Research Training Group II³ “Parameter Identification - From Application to Analysis, Algorithms and efficient Implementations”
 06/2016 – 5/2019 Focus research project (ZF, University Bremen) “Quantification of treatment effect variability in clinical trials”
 10/2015 – 9/2018 Subproject in BMBF joint project “Adaptive Designs in Individualized Therapy (ADIT)”
 11/2015 – 12/2018 Subproject in EU funded project “Improving Design, Evaluation and Analysis of early drug development Studies (IDEAS)”
 12/2013 – 12/2018 DFG project “Design and analysis of three- and multi-armed ‘gold-standard’ non-inferiority trials”

Selected Publications

- Brannath W, Kluge L, Martin Scharpenberg M (2024) Informative Simultaneous Confidence Intervals for Graphical Test Procedures *arXiv preprint arXiv:2402.13719*
- Jankovic V, Fischer L, Brannath W (2024) Asymptotic Online FWER Control for Dependent Test Statistics. *arXiv preprint arXiv:2401.09559*
- Rink P, Brannath W (2024) Multiplicity-adjusted bootstrap tilting lower confidence bounds for conditional prediction performance measures. *arXiv preprint arXiv:2210.13206*
- Luschei L, Brannath W (2023) The effect of estimating prevalences on the population-wise error rate. *arXiv preprint arXiv:2304.09988*
- Fischer L, Bofill Roig M, Brannath W (2024) The Online Closure Principle. *Annals of Statistics*, to appear.
- Fischer L, Bofill Roig M, Brannath W (2024) An exhaustive ADDIS principle for online FWER control. *Biometrical Journal*, to appear.
- Scharpenberg M, Brannath W (2023) Simultaneous confidence intervals for an extended Koch-Röhmel design in three-arm non-inferiority trials. *Statistical Methods in Medical Research*, 32(9):1784-1798
- Brannath W, Hillner C, Rohmeyer K (2023) The population-wise error rate for clinical trials with overlapping populations. *Statistical Methods in Medical Research*, 32(2): 334-352
- Brannath W, Scharpenberg M, Schmidt S (2022) Single-stage, three-arm, adaptive test strategies for non-inferiority trials with an unstable reference. *Statistics in Medicine*, 41(25): 5033-5045

- Westphal M, Zapf A, Brannath W (2022) A multiple testing framework for diagnostic accuracy studies with co-primary endpoints. *Statistics in Medicine*, 41(5): 891-909
- Friedrich S, Antes G, Behr S, Binder H, Brannath W, Dumpert F, Ickstadt K, Kestler HA, Lederer J, Leitgöb H, Pauly M, Steland A, Wilhelm A, Friede T, (2022) Is there a role for statistics in artificial intelligence? *Advances in Data Analysis and Classification*, 16 (4): 823-846
- Zimmermann G, Brunner E, Brannath W, Happ M, Bathke AC (2021) Pseudo-Ranks: The Better Way of Ranking? *American Statistician*, 76(2): 124-130
- Stallard N, Hampson L, Benda N, Brannath W, Burnett T, Friede T, Kimani PK, Koenig F, Krisam J, Mozgunov P, Posch M, Wason J, Wassmer G, Whitehead J, Williamson SF, Zohar S, Jaki T (2020). Efficient Adaptive Designs for Clinical Trials of Interventions for COVID-19. *Statistics in Biopharmaceutical Research*, 12(4): 483-497
- Westphal M, Brannath W (2019). Improving Model Selection by Employing the Test Data. *Proceedings of the 36th International Conference on Machine Learning, PMLR*, 97: 6747-6756
- Westphal M, Brannath W (2019). Evaluation of multiple prediction models: A novel view on model selection and performance assessment. *Statistical Methods in Medical Research*, 29(6): 1728-1745

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