Prof. Dr. Thorsten Dickhaus

Institute for Statistics
Universität Bremen
Bibliothekstr. 5, MZH 6315
28359 Bremen

Current position: W3-professorship (Working group "Mathematical Statistics")
Phone: +49 421 218-63651
email: dickhaus@uni-bremen.de
URL: `http://www.math.uni-bremen.de/~dickhaus`

Born December 01, 1977 (Berlin-Kreuzberg), nationality: German

Scientific curriculum vitae

2015–	Full professor of Mathematical Statistics at University of Bremen
2013–2015	Scientific staff member at the Weierstrass Institute for Applied Analysis and Stochastics Berlin
2010–2013	Junior professor of Mathematical Statistics at Humboldt-University Berlin
2008–2010	Research associate, Berlin Institute of Technology
2005–2008	Ph. D. studies in Mathematics at Heinrich-Heine-University Düsseldorf

Administrative activities

2016–	Vice Dean of Academics at Faculty 03 of University of Bremen

Awards

2003	Honour badge from University of Applied Sciences Aachen

Research semesters

10/2018–03/2019	Research semester from University of Bremen

Editorial work

Since 2012	Managing Editor and Associate Editor for Statistics (Berlin)
Since 2014	Associate Editor for the Annals of the Institute of Statistical Mathematics (AISM)
Since 2016	Editorial Board Member of the Calcutta Statistical Association Bulletin

10 most important publications

Peer-reviewed publications

1. J. von Schroeder, and T. Dickhaus (2020). *Efficient Calculation of the Joint Distribution of Order Statistics.* Computational Statistics & Data Analysis, 144:Article 106899.
2. T. Dickhaus, and N. Sirotko-Sibirskaya (2019). *Simultaneous Statistical Inference in Dynamic Factor Models: Chi-Square Approximation and Model-Based Bootstrap.* Computational Statistics & Data Analysis, 129:30–46.
3. A. Neumann, T. Bodnar, D. Pfeifer, and T. Dickhaus (2019). *Multivariate multiple test procedures based on nonparametric copula estimation.* Biometrical Journal, 61(1):40–61.
4. B. Mieth, M. Kloft, J.A. Rodriguez, S. Sonnenburg, R. Vobruba, C. Morcillo-Suarez, X. Farre, U.M. Marigorta, E. Fehr, T. Dickhaus, G. Blanchard, D. Schunk, A. Navarro, and K.-R. Müller (2016). *Combining Multiple Hypothesis Testing with Machine Learning*

Increases the Statistical Power of Genome-wide Association Studies. Scientific Reports, 6:Article 36671.

5. T. Dickhaus (2015). *Simultaneous Bayesian analysis of contingency tables in genetic association studies.* Statistical Applications in Genetics and Molecular Biology, 14(4):347–360.
6. J. Stange, T. Bodnar, and T. Dickhaus (2015). *Uncertainty quantification for the family-wise error rate in multivariate copula models.* AStA Advances in Statistical Analysis, 99(3):281–310.
7. T. Bodnar, and T. Dickhaus (2014). *False discovery rate control under Archimedean copula.* Electronic Journal of Statistics, 8(2):2207-2241.
8. T. Dickhaus (2013). *Randomized p-values for multiple testing of composite null hypotheses.* Journal of Statistical Planning and Inference, 143(11):1968-1979.
9. H. Finner, T. Dickhaus, and M. Roters (2009). *On the False Discovery Rate and an Asymptotically Optimal Rejection Curve.* The Annals of Statistics, 37(2):596-618.

Book

10. T. Dickhaus (2014). *Simultaneous Statistical Inference with Applications in the Life Sciences.* Springer Berlin Heidelberg, ISBN 978-3-642-45181-2.

Supervised PhD students (last 5 years)

1. André Neumann (08/2015–05/2018): *Multiple Testing under Copula Dependency Structures* Currently: PostDoc in my working group.
2. Natalia Sirotko-Sibirskaya (06/2015–09/2019): *Model Selection in Dynamic and Approximate Factor Models.* Currently: PostDoc in my working group.
3. Jonathan von Schroeder (since 07/2017): *Statistical inference for MALDI data.*
4. Anh-Tuan Hoang (since 04/2019): *Statistical methods for replicability analyses in multi-stage studies.*
5. Vladimir Vutov (since 10/2019): *Two-sample tests for MALDI data.*
6. Justus Contzen (since 12/2019): *Statistical methods for analyzing climate time series.*

5 most important externally funded projects (last 5 years)

1. Helmholtz graduate school “MarDATA”, since 2019.
2. DFG project “Statistical methods for replicability analyses in multi-stage studies”, since 2019.
3. DFG project “Statistical inference methods for behavioral genetics and neuroeconomics”, 2013-2018.
4. DFG Research Unit “Structural Inference in Statistics: Adaptation and Efficiency”, 2012–2018.
5. BMBF project “EPILYZE”, 2014–2016.