

Dr. Katrin Jansen

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Personal Information

Date of birth: 09.03.1995

Place of birth: Aachen

Education

Dr. rer. nat. Psychology University of Münster, Germany Dissertation: <i>Statistical Methods for Meta-Analysis of Rare Events</i> Supervisor: Professor Dr. Heinz Holling	04/2020 - 09/2023
M.Sc. Psychology University of Münster, Germany	10/2017 - 02/2020
Erasmus exchange program University of Oslo, Norway	08/2015 - 06/2016
B.Sc. Mathematics University of Münster, Germany	10/2014 - 09/2020
B.Sc. Psychology University of Münster, Germany	10/2013 - 05/2017

Research Experience

Research associate Chair of Statistics and Psychological Methods (Professor Dr. Steffen Nestler) Department of Psychology, University of Münster, Germany	since 02/2023
Research associate Chair of Statistics and Methods (Professor Dr. Heinz Holling) Department of Psychology, University of Münster, Germany	04/2020 - 01/2023
Student teaching assistant Chair of Experimental Psychology Department of Psychology, University of Münster, Germany	04/2019 - 11/2019
Student research & teaching assistant Chair of Statistics and Methods Department of Psychology, University of Münster, Germany	11/2016 - 10/2019
Student teaching assistant Chair of Statistics and Methods Department of Psychology, University of Münster, Germany	10/2014 - 08/2015

Awards and Funding

Gustav-A.-Lienert Price for dissertations awarded by the Methods and Evaluation Section of the German Psychological Society	2025
DAAD conference participation funding awarded for visiting the International Meeting of the Psychometric Society in Prague	2024
EdAstra Tech Travel Award awarded at the International Meeting of the Psychometric Society (IMPS) in Bologna	2022
Talklet price awarded at the DAGStat conference 2022 in Hamburg	2022
Scholarship awarded by the German Academic Scholarship Foundation	2013 - 2020

Academic Self-Government

Deputy member of the committee for the promotion of young scientists	since 2025
Member of the examination board entrance examination without Abitur	since 2024
Member of several appointment and evaluation committees	2022-2024
Deputy member of the PhD committee	2022-2023

Professional Memberships

Society of Research Synthesis Methodology (SRSRM)	since 2024
German Psychological Society (DGPs): Section Methods and Evaluation	since 2020

Journal Reviewer (Ad Hoc)

BMC Medical Research Methodology, Frontiers in Psychology, Research Synthesis Methods, Scientific Reports

Journal Articles (Peer-Reviewed)

- [1] Bruns[†], J., Meier[†], M., & **Jansen, K.** (2025). The Efficacy of Individual Cognitive Behavioral Therapy for Eating Disorders: A Meta-Analysis of Randomized Controlled Trials. *International Journal of Eating Disorders*. <https://doi.org/10.1002/eat.24519>
- [2] **Jansen, K.**, & Nestler, S. (2025). Correcting for Differences in Measurement Unreliability in Meta-Analysis of Variances. *Multivariate Behavioral Research*, 60(4), 711–730. <https://doi.org/10.1080/00273171.2025.2469789>
- [3] Meier, M., **Jansen, K.**, Vertgevall, H., & Claes, L. (2024). The Lifetime Prevalence of Non-suicidal Self-injury in Children and Adolescents with Eating Disorders - a Systematic Review and Meta-analysis. *European Eating Disorders Review*. <https://doi.org/10.1002/erv.3158>
- [4] Sangnawakij, P., Böhning, D., Holling, H., & **Jansen, K.** (2024). Nonparametric Estimation of the Random Effects Distribution for the Risk or Rate Ratio in Rare Events Meta-analysis with the Arm-based and Contrast-based Approaches. *Statistics in Medicine*, 43(4), 706–730. <https://doi.org/10.1002/sim.9981>

- [5] **Jansen, K.**, & Holling, H. (2023). Random-effects Meta-analysis Models for the Odds Ratio in the Case of Rare Events under Different Data-generating Models: A Simulation Study. *Biometrical Journal*, 65(3), 2200132. <https://doi.org/10.1002/bimj.202200132>
- [6] **Jansen, K.**, & Holling, H. (2023). Rare Events Meta-analysis Using the Bayesian Beta-binomial Model. *Research Synthesis Methods*, 14(6), 853–873. <https://doi.org/10.1002/jrsm.1662>
- [7] Badenoch, J. B., Rengasamy, E. R., Watson, C., **Jansen, K.**, Chakraborty, S., Sundaram, R. D., Hafeez, D., Burchill, E., Saini, A., Thomas, L., Cross, B., Hunt, C. K., Conti, I., Ralovska, S., Hussain, Z., Butler, M., Pollak, T. A., Koychev, I., Michael, B. D., ... Rooney, A. G. (2022). Persistent Neuropsychiatric Symptoms after COVID-19: A Systematic Review and Meta-Analysis. *Brain Communications*, 4(1), fcab297. <https://doi.org/10.1093/braincomms/fcab297>
- [8] Holling, H., **Jansen, K.**, Böhning, W., Böhning, D., Martin, S., & Sangnawakij, P. (2022). Estimation of Effect Heterogeneity in Rare Events Meta-Analysis. *Psychometrika*, 87(3), 1081–1102. <https://doi.org/10.1007/s11336-021-09835-5>
- [9] Meier, M., **Jansen, K.**, Summers, B. J., Dreier, M. J., Farrell, N. R., & Buhlmann, U. (2022). Using Network Theory for Psychoeducation in Eating Disorders. *Cognitive Therapy and Research*, 46(1), 133–145. <https://doi.org/10.1007/s10608-021-10204-w>
- [10] Böhning, D., Martin, S., Sangnawakij, P., **Jansen, K.**, Böhning, W., & Holling, H. (2021). Nonparametric Estimation of Effect Heterogeneity in Rare Events Meta-Analysis: Bivariate, Discrete Mixture Model. *Lobachevskii Journal of Mathematics*, 42(2), 308–317. <https://doi.org/10.1134/S1995080221020074>
- [11] Koychev[†], I., **Jansen[†], K.**, Dette, A., Shi, L., & Holling, H. (2021). Blood-Based ATN Biomarkers of Alzheimer's Disease: A Meta-Analysis. *Journal of Alzheimer's Disease*, 79(1), 177–195. <https://doi.org/10.3233/JAD-200900>
- [12] Rogers, J. P., Watson, C. J., Badenoch, J., Cross, B., Butler, M., Song, J., Hafeez, D., Morrin, H., Rengasamy, E. R., Thomas, L., Ralovska, S., Smakowski, A., Sundaram, R. D., Hunt, C. K., Lim, M. F., Ani wattanapong, D., Singh, V., Hussain, Z., Chakraborty, S., ... Rooney, A. G. (2021). Neurology and Neuropsychiatry of COVID-19: A Systematic Review and Meta-Analysis of the Early Literature Reveals Frequent CNS Manifestations and Key Emerging Narratives. *Journal of Neurology, Neurosurgery & Psychiatry*, jnnp-2021–326405. <https://doi.org/10.1136/jnnp-2021-326405>
- [13] Scharfen[†], J., **Jansen[†], K.**, & Holling, H. (2018). Retest Effects in Working Memory Capacity Tests: A Meta-Analysis. *Psychonomic Bulletin & Review*, 25(6), 2175–2199. <https://doi.org/10.3758/s13423-018-1461-6>

[†] indicates shared first authorship

Book Chapters

- [1] Holling, H., & **Jansen, K.** (2023). Using Nonparametric Mixture Models to Model Effect Heterogeneity in Meta-Analysis of Very Rare Events. In M. Wiberg, D. Molenaar, J. González, J.-S. Kim & H. Hwang (Hrsg.), *Quantitative Psychology. IMPS 2022. Springer Proceedings in Mathematics & Statistics* (S. 197–209, Bd. 422). Springer, Cham. https://doi.org/10.1007/978-3-031-27781-8_18

Conference Talks

- [1] **Jansen, K.**, & Nestler, S. (2025). *Moderator selection in meta-analysis using Lasso and elastic net regularization*. Presented at the 17th Conference of the Section Methods and Evaluation of the German Psychological Society (DGPs) in Berlin.
- [2] **Jansen, K.**, & Nestler, S. (2024). *Correcting for differences in measurement unreliability in meta-analysis of variances*. Presented at the Meeting of the Society for Research Synthesis Methodology (SRSM) in Amsterdam.

- [3] **Jansen, K., & Nestler, S. (2024).** *Multivariate location-scale models for meta-analysis*. Presented at the Meeting of the German Psychological Society (DGPs) in Vienna.
- [4] **Jansen, K., & Nestler, S. (2024).** *Multivariate location-scale models for meta-analysis*. Presented at the International Meeting of the Psychometric Society (IMPS) in Prague.
- [5] **Jansen, K., & Holling, H. (2023).** *Nonparametric estimation of heterogeneity in rare events meta-analysis using arm-based and contrast-based approaches*. Presented at the 10th European Congress of Methodology in Ghent.
- [6] **Jansen, K., & Holling, H. (2023).** *Using the beta-binomial model for meta-analysis*. Presented within the Symposium *New Developments in Meta-Analysis* at the 16th Conference of the Section Methods and Evaluation of the German Psychological Society (DGPs) in Konstanz.
- [7] **Holling, H., & Jansen, K. (2022).** *Estimating effect heterogeneity in rare events meta-analysis with nonparametric mixture models*. Presented at the International Meeting of the Psychometric Society (IMPS) in Bologna.
- [8] **Jansen, K., & Holling, H. (2022).** *Comparison of random-effects meta-analysis models for the odds ratio in the case of rare events: a simulation study*. Presented as an online talklet at the DAGStat 2022 Conference in Hamburg.
- [9] **Jansen, K., & Holling, H. (2022).** *Using nonparametric mixture models to model effect heterogeneity in rare events meta-analysis*. Presented at the Junior Scientist Meeting of the Section Methods and Evaluation of the German Psychological Society (DGPs) in Kassel.
- [10] **Jansen, K., & Holling, H. (2021).** *Comparison of random-effects meta-analysis models for the odds ratio in the case of rare events: a simulation study*. Presented at the 15th Conference of the Section Methods and Evaluation of the German Psychological Society (DGPs), online.
- [11] **Jansen, K., & Holling, H. (2021).** *Comparison of random-effects meta-analysis models for the odds ratio in the case of rare events: a simulation study*. Presented at the Junior Scientist Meeting of the Section Methods and Evaluation of the German Psychological Society (DGPs), online.

Invited Talks

Research colloquium at the Department Methodology and Statistics, Tilburg University: Meta-analysis of rare events	12/2024
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Invited Workshops

Introduction to meta-analysis 3-day workshop held at Goethe Research Academy for Early Career Researchers (GRADE) University of Frankfurt (together with Professor Dr. Heinz Holling)	05/2023
Introduction to meta-analysis 2-day workshop held at Goethe Research Academy for Early Career Researchers (GRADE) University of Frankfurt (together with Professor Dr. Heinz Holling)	06/2022

Teaching

Data Analysis I - Seminar Bachelor, 2 ECTS	2024/25
Data Analysis II - Seminar Bachelor, 2 ECTS	2022, 2025
Advanced Statistics I - Seminar Master, 2 ECTS	2021/22, 2022/23, 2023/24
Advanced Statistics II - Seminar Master, 2 ECTS	2023, 2024
Advanced Statistics II (Meta-Analysis) - Lecture Master, 3 ECTS	2023

Münster, 13. November 2025

Katrín Jansen