

DR. HABIL. CHRISTOPH JANSEN

ASSISTANT PROFESSOR

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SUMMARY (TL;DR)

I use methods from decision and game theory and the theory of imprecise probabilities to make machine learning (ML) methods more reliable and robust to their implicit assumptions. My work touches on various areas of ML such as uncertainty quantification, trustworthy ML, robust inference and non-standard data analysis and has been published in major ML venues such as JMLR, UAI and NeurIPS. I hold a PhD and a habilitation degree in Statistics, both from LMU München. Currently, I work as a tenured assistant professor at the Leipzig branch of Lancaster University.

EDUCATION

Habilitation in Statistics (Dr. rer. nat. habil.)	<i>04/2021- 01/2025</i>
Department of Statistics, Ludwig-Maximilians-Universität München	
<i>Venia Legendi in Statistics</i>	
<i>Committee: Thomas Augustin, Eyke Hüllermeier, Ines Couso, and Fabio Cozman</i>	
PhD in Statistics (Dr. rer. nat.)	<i>04/2015- 07/2018</i>
Department of Statistics, Ludwig-Maximilians-Universität München	
<i>Committee: Thomas Augustin, Matthias Troffaes and Lev Utkin</i>	
MSc in Statistics	<i>04/2013 - 02/2015</i>
Department of Statistics, Ludwig-Maximilians-Universität München	
BSc in Mathematics	<i>10/2009 - 10/2012</i>
Department of Statistics, Ludwig-Maximilians-Universität München	

ACADEMIC POSITIONS AND OTHER WORK EXPERIENCE

Assistant Professor for Data Science (tenured)	<i>From 06/2024</i>
School of Computing & Communications (SCC), Lancaster University Leipzig	
<i>Current positions: Director of Research SCC; Director of PhD Studies SCC</i>	
Habilitation Candidate in Statistics	<i>04/2021 - 05/2024</i>
Department of Statistics, Ludwig-Maximilians-Universität München	
Interim W2-Professor of Statistics	<i>04/2022 - 10/2022</i>
Department of Statistics, Ludwig-Maximilians-Universität München	
Mathematics Teacher	<i>01/2019 - 03/2021</i>
Private Business School Scheibner, Dachau	
Adjunct Lecturer for Statistics	<i>09/2018 - 11/2019</i>
Department for Business and Media, Hochschule Fresenius München	
PhD Candidate in Statistics	<i>04/2015 - 01/2019</i>
Department of Statistics, Ludwig-Maximilians-Universität München	

PEER-REVIEWED PUBLICATIONS

The following list contains all peer-reviewed publications. For conference proceedings, if available, the most recent CORE ranking is displayed. For journal articles, the relevant SJR quartiles are included.

1. Jansen, C., Schollmeyer, G., Augustin, T., Rodemann, J. (2026): [Empirical Decision Theory](#). *Information Sciences*, 757: 1-29 SJR 2023: **Q1** (Theoretical CS), **Q1** (AI)
2. Coolen, F., Cozman, F., Denoeux, T., Jansen, C., Küchenhoff, H., Martin, R., Miranda, E., Plass, J., Rodemann, J., Schollmeyer, G., Seising, R. (2026): [Thomas Augustin's contributions to imprecise probability and statistics](#), *International Journal of Approximate Reasoning*, 198: 1-13. SJR 2023: **Q1** (Applied Math.), **Q2** (AI)
3. Jansen, C., Schollmeyer, G. (2026): [Robust Bayes Acts under Prior Perturbations: Contamination, Stability, and Selection Paths](#). In: *Modeling Decisions for Artificial Intelligence (MDAI 2026)*, volume 16924 of *LNAI*. Springer. CORE 2026: **B**
4. Garces-Arias, E., Blocher, H., Rodemann, J., Assenmacher, M., Jansen, C. (2025): [Statistical Multicriteria Evaluation of LLM-Generated Text](#). Forthcoming in: *Proceedings of the 18th International Natural Language Generation Conference (INLG 2025)*. Association for Computational Linguistics (ACL). CORE 2023: **B**
5. Gordienko, P., Jansen, C., Augustin, T., Rechenauer, M. (2025): [Consensus in Motion: A Case of Dynamic Rationality of Sequential Learning in Probability Aggregation](#). Forthcoming in: *Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU 2025)*, volume **tba** of *LNCS*. Springer. CORE 2023: **C**
6. Jansen, C., Schollmeyer, G., Rodemann, J., Blocher, H., Augustin, T. (2024): [Statistical Multicriteria Benchmarking via the GSD-Front](#). In: *Advances in Neural Information Processing Systems 37 (NeurIPS 2024)*. *Spotlight paper*. CORE 2023: **A***
7. Rodemann, J., Jansen, C., Schollmeyer, G. (2024): [Reciprocal Learning](#). In: *Advances in Neural Information Processing Systems 37 (NeurIPS 2024)*. CORE 2023: **A***
8. Dietrich, S., Rodemann, J., Jansen, C. (2024): [Semi-Supervised Learning guided by the Generalized Bayes Rule under Soft Revision](#). In: *Combining, modelling and analyzing imprecision, randomness and dependence (SMPS 2024)*, volume 1458 of *AISC*. Springer.
9. Blocher, H., Schollmeyer, S., Nalenz, M., Jansen, C. (2024): [Comparing Machine Learning Algorithms by Union-Free Generic Depth](#). *International Journal of Approximate Reasoning*, 169: 1-23. SJR 2023: **Q1** (Applied Math.), **Q2** (AI)
10. Jansen, C., Nalenz, M., Schollmeyer, G., Augustin, T. (2023): [Statistical Comparisons of Classifiers by Generalized Stochastic Dominance](#). *Journal of Machine Learning Research*, 24: 1-37. SJR 2023: **Q1** (AI), **Q1** (Statistics and Probability)
11. Jansen, C., Schollmeyer, G., Blocher, H., Rodemann, J., Augustin, T. (2023): [Robust statistical comparison of random variables with locally varying scale of measurement](#). In: *Proceedings of the Thirty-Ninth Conference on Uncertainty in Artificial Intelligence (UAI 2023)*, volume 216 of *Proceedings of Machine Learning Research*. PMLR. CORE 2023: **A**
12. Blocher, H., Schollmeyer, G., Jansen, C., Nalenz, M. (2023): [Depth functions for partial orders with a descriptive analysis of machine learning algorithms](#). In: *Proceedings of the Thirteenth International Symposium on Imprecise Probabilities: Theories and Applications (ISIPTA 2023)*, volume 215 of *Proceedings of Machine Learning Research*. PMLR.

13. Rodemann, J., Jansen, C., Schollmeyer, G., Augustin, T. (2023): [In all Likelihoods: Robust Selection of Pseudo-Labeled Data](#). In: *Proceedings of the Thirteenth International Symposium on Imprecise Probabilities: Theories and Applications (ISIPTA 2023)*, volume 215 of *Proceedings of Machine Learning Research*. PMLR.
14. Jansen, C., Schollmeyer, G., Augustin, T. (2023): [Multi-target decision making under conditions of severe uncertainty](#). In: *Modeling Decisions for Artificial Intelligence (MDAI 2023)*, volume 13890 of *LNAI*. Springer. CORE 2023: B
15. Jansen, C., Blocher, H., Augustin, T., Schollmeyer, G. (2022): [Information efficient learning of complexly structured preferences: Elicitation procedures and their application to decision making under uncertainty](#). *International Journal of Approximate Reasoning*, 144: 69 - 91. SJR 2023: Q1 (Applied Math.), Q2 (AI)
16. Jansen, C., Schollmeyer, G., Augustin, T. (2022): [Quantifying degrees of E-admissibility in decision making with imprecise probabilities](#). In: Augustin, T.; Cozman, F.; Wheeler, G. (eds): *Reflections on the Foundations of Probability and Statistics: Essays in Honor of Teddy Seidenfeld*, volume 54 of *Theory and Decision Library A*. Springer.
17. Jansen, C.; Augustin, T. (2022): [Decision making with state-dependent preference systems](#). In: *Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2022)*, volume 1601 of *CCIS*. Springer. CORE 2023: C
18. Blocher, H., Schollmeyer, G., Jansen, C. (2022): [Statistical models for partial orders based on data depth and formal concept analysis](#). In: *Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2022)*, volume 1602 of *CCIS*. Springer. CORE 2023: C
19. Baccelli, J., Schollmeyer, G., Jansen, C. (2022): [Risk Aversion over Finite Domains](#). *Theory and Decision*, 93(3): 371-397. SJR 2023: Q2 (Decision Sciences), Q2 (Social Sciences)
20. Jansen, C., Schollmeyer, G., Augustin, T. (2018): [Concepts for decision making under severe uncertainty with partial ordinal and partial cardinal preferences](#). *International Journal of Approximate Reasoning*, 98: 112 - 131. SJR 2023: Q1 (Applied Math.), Q2 (AI)
21. Jansen, C., Schollmeyer, G., Augustin, T. (2018): [A probabilistic evaluation framework for preference aggregation reflecting group homogeneity](#). *Mathematical Social Sciences*, 96: 49-62. SJR 2023: Q2 (Social Sciences)
22. Jansen, C., Augustin, T., Schollmeyer, G. (2017): [Decision theory meets linear optimization beyond computation](#). In: *Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU 2017)*, volume 10369 of *LNCS*. Springer. CORE 2023: C
23. Jansen, C., Schollmeyer, G., Augustin, T. (2017): [Concepts for decision making under severe uncertainty with partial ordinal and partial cardinal preferences](#). In: *Proceedings of the Tenth International Symposium on Imprecise Probability: Theories and Applications (ISIPTA 2017)*, volume 62 of *Proceedings of Machine Learning Research*. PMLR.

PREPRINTS AND WORK IN PROGRESS

1. Gordienko, P., Schollmeyer, G., Kreuter, F., Jansen, C. (2026): [How Hard is it to Rig a Benchmark? A Social Choice Analysis of Leaderboard Robustness](#). *Under review*.
Preprint available under: <https://arxiv.org/abs/2605.23628>

2. Rodemann, R., Garces-Arias, E., Luther, C., Jansen, C., Augustin, T. (2026): [A Statistical Case Against Empirical Human–AI Alignment](#). *Under review*.
Preprint available under: <https://arxiv.org/abs/2502.14581>
3. Gordienko, P., Jansen, C., Rodemann, J., Schollmeyer, G. (2026): [Beyond Arrow: From Impossibility to Possibilities in Multi-Criteria Benchmarking](#). *Under review*.
Preprint available under: <https://doi.org/10.48550/arXiv.2602.07593>
4. Gordienko, P., Jansen, C., Augustin, T., Rechenauer, M. (2026+): [Dynamic rationality of aggregated interval probabilities on propositional logic](#). *In preparation, extended abstract accepted for ISIPTA 2025*.
5. Dietrich, S., Rodemann, J., Jansen, C. (2026+): [Robust pseudo-label selection in Semi-Supervised Learning with Soft Revision applied to Bayesian Networks](#). *In preparation, extended abstract accepted for ISIPTA 2025*.

TECHNICAL REPORTS AND OTHER PUBLICATIONS

1. Schollmeyer, G.; Jansen, C.; Augustin, T. (2017): [Detecting stochastic dominance for poset-valued random variables as an example of linear programming on closure systems](#). Department for Statistics, LMU München: *Technical Reports*, Nr. 209, August 2017.
Available under: <https://epub.ub.uni-muenchen.de/40416/>
2. Schollmeyer, G.; Jansen, C.; Augustin, T. (2017): [A simple descriptive method for multidimensional item response theory based on stochastic dominance](#). Department for Statistics, LMU München: *Technical Reports*, Nr. 210, August 2017.
Available under: <https://epub.ub.uni-muenchen.de/40450/>
3. Jansen, C.; Schollmeyer, G.; Augustin, T. (2016): [Probabilistic Evaluation of Preference Aggregation Functions: A Statistical Approach in Social Choice Theory](#). Department for Statistics, LMU München: *Technical Reports*, Nr. 193, August 2016.
Available under: <https://epub.ub.uni-muenchen.de/29269/>
4. Jansen, C., Schollmeyer, G. (2018); [What’s hot in Mathematical Philosophy?](#) *The Reasoner*, 12(9): 73-74.
5. Jansen, C. (2016): [Report on MuST 2016](#). *The Reasoner*, 10(6): 47-48.

THESES

1. Jansen, C. (2024): [Contributions to the Decision Theoretic Foundations of Machine Learning and Robust Statistics under Weakly Structured Information](#). *Habilitation thesis*, Department for Statistics, LMU München.
Available under: <https://arxiv.org/abs/2501.10195>
2. Jansen, C. (2018): [Some contributions to decision making in complex information settings with imprecise probabilities and incomplete preferences: Theoretical and algorithmic results](#). *Doctoral thesis*, Department for Statistics, LMU München.
Available under: <https://edoc.ub.uni-muenchen.de/22653/>
3. Jansen, C. (2015): [Decision making under partial information using precise and imprecise probabilistic models](#). *Master’s thesis*, Department for Statistics, LMU München.
Available under: <https://epub.ub.uni-muenchen.de/25591/>
4. Jansen, C. (2013): [Boolesche Algebren und der Stonesche Darstellungssatz](#). *Bachelor’s thesis*, Department for Mathematics, LMU München.

TEACHING EXPERIENCE

At Lancaster University Leipzig:

Statistical Foundations (2x)

Lecture (2 ch) and Workshops (2 ch) in the MSc Data Science. Language: Englisch.

Statistical Learning (2x)

Lecture (4 ch) and Workshops (4 ch) in the MSc Data Science. Language: Englisch.

Data Science Fundamentals (2x)

Lecture (2 ch) and Workshops (2 ch) in the MSc Data Science. Language: Englisch.

Optimisation and Heuristics (once)

Lecture (2 ch) and Workshops (2 ch) in the MSc Data Science. Language: Englisch.

At Ludwig-Maximilians-Universität München:

Mathematik 1: Grundlegende Konzepte für Nebenfachstudierende (4x)

Lecture (3 ch) and Workshops (2 ch) for the BSc minor Statistics. Language: German.

Mathematik 2: Mathematische Techniken in der Statistik fürs Nebenfach (3x)

Lecture (3 ch) and Workshops (2 ch) for the BSc minor Statistics. Language: German.

Decision Theory (6x)

Lecture (3 ch) and Workshops (1 ch) in the MSc Data Science. Language: Englisch.

Advanced Decision Theory (4x)

Lecture (1 ch) and Workshops (1 ch) in the MSc Data Science. Language: Englisch.

Mathematische Grundlagen fürs Nebenfach (2x)

Lecture (2 ch) and Workshops (2 ch) for the BSc minor Statistics. Language: German.

Mathematische Strukturen in der Statistik (once)

Lecture (3 ch) and Workshops (2 ch) im Master Statistik. Language: German.

Selected Topics in Decision Theory (3x)

Seminar (2 ch) for BSc and MSc Data Science. Language: Englisch.

Non-Standard Topics in Statistics, Stochastics, and Decision Theory (once)

Seminar (2 ch) for BSc and MSc Data Science. Language: Englisch.

Entscheiden unter Risiko und Ambiguität (once)

Seminar (2 ch) for BSc and MSc Data Science. Language: German.

Geschichte der Statistik (once)

Seminar (2 ch) for BSc and MSc Data Science. Language: German.

Auf Du und Du mit Statistik und Co. (4x)

Interdisciplinary bridging course (block taught) for study beginners. Language: German.

Wirtschafts- und Sozialstatistik (2x)

Workshops (2 ch) for the BSc Statistics. Language: German.

Statistik I für Studierende der Soziologie (3x)

Workshops (2 ch) for the BSc Social Sciences. Language: German.

Statistik II für Studierende der Soziologie (3x)

Workshops (2 ch) for the BSc Social Sciences. Language: German.

Statistik II für Studierende der Wirtschaftswissenschaften (once)
Workshops (2 ch) im Bachelor BWL. Language: German.

At Hochschule Fresenius:

Deskriptive und induktive Statistik (2x)
Lecture (3 ch) and Workshops (3 ch) for the BSc Business Psychology. Language: German.

STUDENT SUPERVISION

I have supervised a total of **fifteen BSc and MSc theses**, mainly in the areas of robust statistics, optimization theory, and decision-theoretical approaches in machine learning. For a detailed list, please visit my website. In addition, I am currently **co-supervising a doctoral student** whose research is located at the intersection of machine learning and social choice theory.

PROFESSIONAL SERVICE

Reviewing for *NeurIPS*, *ICML*, *ISIPTA*, *SMPS*, *TMLR*, *Fuzzy Sets and Systems*, *International Journal of Approximate Reasoning*, *Operations Research*, *Information Sciences*, *Social Choice and Welfare*, *Demonstratio Mathematica*, *Philosophical Studies*, and *Mathematical Social Sciences*.

EC-board member of The Society for Imprecise Probabilities: Theories and Applications (SIPTA).

Co-organizer of WPMSIIP 2015 in Munich.

PC-member of ISIPTA 2019 in Ghent.

Organizer of the First Workshop on Machine Learning Under Weakly Structured Information 2024.

Co-organizer of a special session at Soft Methods in Probability and Statistics (SMPS 2024).

FUNDING, HONORS AND AWARDS

EC-board Member of SIPTA (07-2025): I have been re-elected a member of the EC of the *Society for Imprecise Probabilities: Theories and Applications (SIPTA)* for another two years. This is my second term in office after 2023-2025.

Seedcorn Funding (04-2025): Our project *Energy-Smart AI* won funding of £7500 at the *Global collaboration for a secure and sustainable future* event by Lancaster University and Sunway University.

Spotlight at NeurIPS 2024 (12-2024): Our paper *Statistical Multicriteria Benchmarking via the GSD-Front* was accepted as NeurIPS 2024 spotlight. Only 2 – 3% of the papers fall in this category.

Invited Talk SIPTA Seminar Series (05-2024): I was invited to give an online seminar on decision making in machine learning in the renowned seminar series of the *Society for Imprecise Probabilities: Theories and Applications (SIPTA)*.

Postdoc Support Fund LMUexcellent 2024 (01-2024): I have been granted €4,000 to organize an international workshop on machine learning.

Posdoct Support Fund LMUexcellent 2023 (04-2023): I have been granted €5,000 for travel and for the employment of a RA to support my research.

Special Issue of ISIPTA 2023 (07-2023): Invitation to submit an extended version of our paper to the *International Journal of Approximate Reasoning*. Only < 15% of the accepted papers are invited.

Teaching Award Hochschule Fresenius 2019 (03-2019): My lecture was selected among the best 6 out of 429 courses and I received a teaching award.

Special Issue of ISIPTA 2017 (07-2017): Invitation to submit an extended version of our paper to the *International Journal of Approximate Reasoning*. Only $< 15\%$ of the accepted papers are invited.

Summer School on Formalization (09-2015): I was a co-applicant for a grant to organize an interdisciplinary summer school on formalization in the humanities. The project was granted €18,000.

Best Poster Award (07-2025): We received a best poster award at the *ISIPTA 2015* conference.

Best Student Consulting Project (03-2014): My project was selected best consulting project of my MSc cohort (approx. 150 students).

Travel Funding Lehre@LMU (06-2014): I received full travel funding for the SIPTA Summer School 2014 in Montpellier as a MSc student.