CURRICULUM VITAE

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PERSONAL DETAILS

Birth Date and Place: 17/04/1992 in Hildesheim (Germany)

PROFESSIONAL EXPERIENCE

Since 04/2023	Postdoc & Guest Researcher, University of Hamburg, Faculty of Business Administration, Institute of Statistics - Research in Machine Learning and Econometrics
Since 04/2023	Researcher, Economic AI - Research and Implementation of new Methods Focus on Double Machine Learning
02/2022 – 08/2022	Visiting Scholar, Massachusetts Institute of Technology, Department of Economics, Host: Prof. Victor Chernozhukov - Research in Machine Learning and Econometrics
01/2021 – 03/2023	Post-Doctoral Research Associate at Hamburg Business School, Faculty of Business Administration, Institute of Statistics - Research and Teaching in Machine Learning and Econometrics

EDUCATION

01/2017 – 12/2020	Ph.D. in Statistics, University of Hamburg, Faculty of Business Administration, Institute of Statistics - Adviser: Prof. Dr. Martin Spindler - Dissertation: *Essays on Valid Inference in High-Dimensions* - Overall grade: With distinction (summa cum laude)
10/2014 – 12/2016	M. Sc. Business Mathematics, University of Hamburg Final Grade: Very good (1.28/1.0) - Major Interests: Empirical Processes - Master Thesis: *Maximum Likelihood Estimator for transformed AR(p) time series,* Supervisor: Prof. Dr. Natalie Neumeyer, Grade: Very Good (1.3/1.0)
10/2011 – 10/2014	B. Sc. Business Mathematics, University of Hamburg Final Grade: Good (1.59/1.0) - Specialized in Stochastics and Statistics

PUBLICATIONS

Bach, P., Chernozhukov, V., Klaassen, S., Kurz, M., Spindler, M. (2024): *DoubleML – An Object-Oriented Implementation of Double Machine Learning in R (*https://doi.org/10.18637/jss.v108.i03*).*
Journal of Statistical Software, 108 (3), 1-56.

Schacht, O., Klaassen, S., Schwarz, S., Spindler, M., Grünbaum, D., Imhof, S., (2023): *Causally learning an optimal rework policy (*https://proceedings.mlr.press/v218/schacht23a.html*).*
Proceedings of Machine Learning Research 218, 3-24.

Klaassen, S., Kueck, J., Spindler, M., Chernozhukov, V. (2023): *Uniform Inference in High-Dimensional Gaussian Graphical Models (*https://doi.org/10.1093/biomet/asac030*).*
Biometrika 110 (1), 51-68.

Klaassen, S., Kueck, J., Spindler, M. (2022): *Transformation Models in High-Dimensions (*https://www.tandfonline.com/doi/full/10.1080/07350015.2021.1906259*).*
Journal of Business & Economic Statistics 40 (3), 1168-1178.

Farbmacher, H., Guber, R., Klaassen, S. (2022) *Instrument Validity Tests with Causal Forests* (https://www.tandfonline.com/doi/full/10.1080/07350015.2020.1847122).
Journal of Business & Economic Statistics 40 (2), 605-614.

WORKING PAPERS

Bach, P., Klaassen, S., Kueck, J., Spindler, M. (2023): *Uniform Inference in High-Dimensional Additive Models (*https://doi.org/10.48550/arXiv.2004.01623*).*
Reject and Resubmit at *Journal of Econometrics.*

Klaassen, S. (2021): *A Note on High-Dimensional Confidence Regions* (https://doi.org/10.48550/arXiv.2105.09028).

Klaassen, S., Teichert-Kluge, J., Bach, P., Chernozhukov, V., Spindler, M., Vijaykumar, S. (2024): *DoubleMLDeep: Estimation of Causal Effects with Multimodal Data (*https://doi.org/10.48550/arXiv.2402.01785*).*
Submitted to International Conference of Machine Learning.

Bach, P., Schacht, O., Chernozhukov, V., Klaassen, S., Spindler, M. (2024): *Hyperparameter Tuning for Causal Inference with Double Machine Learning: A Simulation Study* (https://doi.org/10.48550/arXiv.2402.04674).
Accepted at Causal Learning and Reasoning, forthcoming in Proceedings of Machine Learning Research.

WORK IN PROGRESS

Estimation of Price Elasticities with Text and Images (with Victor Chernozhukov, Martin Spindler and Suhas Vijaykumar)

Estimation of Treatment Effects with Multimodal Data under unobserved confounding (with Philipp Bach, Victor Chernozhukov and Martin Spindler)

When to calibrate your propensity score (with Philipp Bach and Jannis Kueck)

Sensitivity Analysis for Difference-in-Differences Estimators (with Jannis Kueck)

L1-Boosting: Rate of Convergence (with Ye Luo)

Adaptive Discrete Smoothing for (High-Dimensional and Nonlinear) Panel Data (with Xi Chen, Victor Chernozhukov, Ye Luo and Martin Spindler)

Causal Rework Policy Estimation (with Oliver Schacht)

CONFERENCES, WORKSHOPS AND SUMMER SCHOOLS

06/2024	ISMS Marketing Science Conference, (scheduled) Presentation: *DoubleMLDeep: Estimation of Causal Effects with Multimodal Data*
04/2024	Causal Inference and Missing Data Group at Inria, (scheduled) Presentation: *DoubleMLDeep: Estimation of Causal Effects with Multimodal Data*
02/2024	2nd Managerial AI Network, Munich Presentation: *When to calibrate your propensity score*
09/2023	Managerial AI Network, Ladenburg Presentation: *DoubleMLDeep: Estimation of Causal Effects with Multimodal Data*
09/2022	Statistische Woche, Münster Presentation: *Uniform Inference in High-Dimensional Additive Models*
09/2022	Jahrestagung, Verein für Socialpolitik, Basel Presentation by co-author: *Uniform Inference in High-Dimensional Additive Models*
06/2021	Counterfactual Methods for Policy Impact Evaluation 2021, Presentation: *Instrument Validity Tests with Causal Forests*
07/2018	International Conference on Machine Learning (ICML), Workshop on *Machine Learning for Causal Inference,* Stockholm Presentation by co-author: *Uniform Inference in High-Dimensional Gaussian Graphical Models.*
06/2018	*Workshop on Machine Learning and Econometrics*, London, Centre for microdata methods and practice
05/2018	Workshop *Machine Learning in Economics and Econometrics*, Munich Max Planck Society/ University of Hamburg Presentation: *Uniform Inference in High-Dimensional Gaussian Graphical Models.*

10/2017	European Courses in Advanced Statistics *High-Dimensional Statistics, theory and practice*, Fréjus, Statistical Society of France, Presentation: *Transformation Models in High-Dimensions.*

REVIEWS

AOS – Annals of Statistics

JMLR – Journal of Machine Learning Research

ECTJ – The Econometrics Journal

AStA – Advances in Statistical Analysis (German Statistical Society)

AWARDS, SCHOLARSHIPS AND THIRD-PARTY FUNDING

2021	Add-on Fellow der Joachim Herz Stiftung (12,000 Euro)
2021	Fulbright Visiting Scholar (2,000 Euro)
2022	Wolfgang-Wetzel-Preis der DStatG (1,000 Euro)
2021-2025	"Causal Reinforcement Learning" jointly with ams-Osram (funded by Bayerisches Wirtschaftsministerium, ca. 350.000 Euro) (Principal Investigator, proposal preparation and funding own position)

TEACHING EXPERIENCE

Fall 2023	Programming (lecture and tutorial)
Fall 2022	Causal Machine Learning (lecture and tutorial)
Spring 2022	Statistics II (tutorial)
Fall 2021	Deep Learning – An Introduction (tutorial)
Spring 2021	Causal Inference (tutorial), Statistical Programming with Python (lecture)
Fall 2020	Deep Learning – An Introduction (tutorial)
Spring 2020	Statistical Programming with Python (lecture)
Fall 2019	Statistics I (tutorial)
Spring 2019	Statistics II (coordination and tutorial)
Fall 2018	Machine Learning (tutorial), Statistics I (tutorial)
Spring 2018	Statistical Programming with Python (lecture), Statistics II (tutorial)
Fall 2017	Decision Behavior (tutorial), Statistics I (tutorial)

Spring 2017	Statistics II (tutorial)
2017 onwards	Supervision of term papers, bachelor and master thesis
10/2014 – 03/2016	Measure Theory, Stochastics

AFFILIATIONS

Since 10/2017	Member of Hamburg Center for Health Economics (HCHE)

PROFESSIONAL EXPERIENCE

10/2023 – 12/2023	Lecturer, Kühne Logistics University (self-employed) - Programming (Introduction to Python)
Since 04/2019	Statistical Consulting (self-employed activity). - Trainings in Data Science and Machine Learning - Applied Projects in Financial Forecasting and Planning
10/2014 – 03/2016	Student Assistant at the Department of Mathematics at the University of Hamburg.
08/2014 – 10/2014	Intern at Talanx AG, Group Risk management – Life – in Hannover, Germany

Hamburg, 29/02/2024