David Strieder

PHD STUDENT · MATHEMATICAL STATISTICS

Technical University of Munich, Boltzmannstr. 3, 85748 Garching b. München, Germany ■ david.strieder@tum.de

Education	
Technical University of Munich PHD IN MATHEMATICS • Advisor: Mathias Drton • Working Title: Confidence in Causal Discovery • Member of the Munich Center of Machine Learning (MCML) • Member of ERC project Graphical Models for Complex Multivariate Data	Munich 2020 - present
 Karlsruhe Institute of Technology M. Sc. IN MATHEMATICS Advisor: Norbert Henze, Bruno Ebner Thesis: New tests of multivariate normality based on the gradient of the characteristic function (1.0) Final grade: 1.2 (with distinction) 	Karlsruhe 2018 - 2020
 Karlsruhe Institute of Technology B. Sc. IN MATHEMATICS Advisor: Bernhard Klar Thesis: Limit theorems for discrete-time stochastic processes (1.0) Final grade: 1.8 	Karlsruhe 2014 - 2018
Publications and Preprints	
D. Strieder and M. Drton. <i>On the choice of the splitting ratio for the split likelihood ratio test.</i> Electronic Journal of Statistics, 16(2), 6631-6650, 2022.	
B. Ebner, N. Henze and D.Strieder. <i>Testing normality in any dimension by Fourier methods in a multivar</i> Canadian Journal of Statistics, 50: 992-1033, 2022.	iate Stein equation.
D. Strieder, T. Freidling, S. Haffner and M. Drton. <i>Confidence in Causal Discovery with Linear Causal Mo</i> Proceedings of the Thirty-Seventh Conference on Uncertainty in Artificial Intelligence, PMLR 161:	
Conference Talks and Presentations	
2022. IMS International Conference on Statistics and Data Science, Florence, Italy. Poster presentation on Confidence in Causal Discovery with Linear Causal Models.	
2022. ETH-UCPH-TUM Workshop on Graphical Models, Raitenhaslach, Germany. Talk on <i>Confidence in Causal Discovery with Linear Causal Models</i> .	
2022. 17th Meeting of PhD Students in Stochastics, Klagenfurt, Austria. Talk on <i>Confidence in Causal Discovery with Linear Causal Models</i> .	
2021. 37th Conference on Uncertainty in Artificial Intelligence, Online. Talk and Poster presentation on <i>Confidence in Causal Discovery with Linear Causal Models</i> .	

Other Talks and Activities _

2022. TUM Graduate Student Seminar on Statistics.

Talk on Graph Quilting: Graphical Model Selection from partially observed Covariances.

2022. TUM Graduate Student Seminar on Statistics.

Talk on What is Universal Inference?

2022. Munich Data Science Institute (MDSI) General Assembly.

Poster presentation on Confidence in Causal Discovery with Linear Causal Models.

2022. Virtual Pitch Talks of the German AI network about Learning on Graphs and Networks.

Talk on Confidence in Causal Discovery with Linear Causal Models.

2022. TUM Graduate Student Seminar on Statistics.

Talk on Tests for multivariate normality based on the characteristic function.

2021. AALTO-ICL-TUM Meeting on Algebraic Methods in Data Science.

Talk on Confidence in Causal Discovery with Linear Causal Models.

2021. TUM Graduate Student Seminar on Statistics.

Talk on Confidence in Causal Discovery with Linear Causal Models.

Teaching Experience _____

TEACHING ASSISTANT

WS 2021/22 Seminar: Nonlinear Methods in Causal Inference, Teaching Assistant

TUM Data Innovation Lab: A robust comparison of causal effects from observational data

in healthcare, Project Mentor

WS 2020/21 Lecture: Generalized Linear Models, Teaching Assistant

THESIS SUPERVISOR

SS 2021

WS 2022/23	Credible Intervals for Causal Effects in Linear Causal Models, Masters Thesis
WS 2022/23	Confindence in Causal Inference from Interventional Data, Masters Thesis
SS 2022	Active Bayesian Causal Discovery for Gaussian Process Networks, Masters Thesis
SS 2022	Post-Nonlinear Gaussian Causal Models, Masters Thesis
SS 2021	Bivaraite Causal Discovery with non-linear Models, Bachelors Thesis
	Two Likelihood-Ratio Based Approaches for Estimating the Causal Effect in Linear

WS 2020/21

Structural Equation Models, Masters Thesis

Other Professional Experience and Service to the Community _____

2021-2022 Program Committee, Conference on Uncertainty in Artificial Intelligence

2021 Program Committee, Workshop on Causal Inference, International Conference on Machine Learning