Gunnar König

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EDUCATION

LMU Munich PhD in Statistics	2019 – now
 Thesis: A Causal Perspective on Interpretable Machine Learning Supervisors: Bernd Bischl, Moritz Grosse-Wentrup 	
University of Vienna Affiliated Researcher	2019 – now
University of Warwick Affiliation for Data Science for Social Good Summer School	2021
LMU Munich ESG M.Sc. Data Science • Thesis: Causal Inference in Calcium Imaging • Supervisor: Moritz Grosse-Wentrup	2016 – 2018 ø1.2
TU Munich Courses from B.Sc. Mathematics	2015 – 2016
TU Munich B.Sc. Information Systems • Thesis: Online Classification with Adaptive Sparse Grid Kernels • Supervisor: Valeriy Khakhutskyy, Hans-Joachim Bungartz	2012 – 2016 ø1.6
École Polytechnique - Université de Montréal Exchange semester	2015
Friedrich-List-Gymnasium Reutlingen Abitur	2012 ø1.0
WORK EXPERIENCE	
Connected Life Data Scientist	2016 – 2018 Munich, Singapore
Siemens Werkstudent Data Science	2015 – 2016 Munich
PUBLICATIONS	
Decomposition of Feature Importance into Direct and Associative Components (DEDAC G. König, T. Freiesleben, G. Casalicchio, B. Bischl, M. Grosse-Wentrup	CT) 2021 arXiv:2106.08086
Relative feature importance	2021

A causal perspective on meaningful and robust algorithmic recourse

G. König, C. Molnar, B. Bischl, M. Grosse-Wentrup

G. König, T. Freiesleben, M. Grosse-Wentrup

2021

ICML Workshop on Algorithmic Recourse

25th International Conference on Pattern Recognition (ICPR)

Relating the PDP and PFI to the Data G C. Molnar, T. Freiesleben, G. König et al.	enerating Process	2021 under review
General pitfalls of model-agnostic IML C. Molnar, G. König et al.	methods	2021 under review
Pitfalls to avoid when interpreting mac C. Molnar, G. König et al.	hine learning model	2020 ICML XXAI Workshop
Model-agnostic Feature Importance an C. Molnar, G. König et al.	d Effects with Dependent Features	2020 arXiv:2006.04628, under review
A causal perspective on challenges for G. König, M. Grosse-Wentrup	r Al in precision medicine	2019 PMBC
TEACHING		
Seminar Explainable Al Lecturer	LMU Munich Center for Mathematicl Philo	21/22 sophy, LMU Statistics Department
Seminar Causality Lecturer		21 LMU Statistics Department
Lecture Interpretable Machine Learning Course Materials	g	20/21 LMU Statistics Department
Seminar Ethics in Al Lecturer		20/21 LMU Statistics Department
Seminar Current Research in Data Scientific Lecturer	ence	20/21 LMU Statistics Department
Seminar Causality Lecturer		20 LMU Statistics Department
Seminar Limitations of Interpretable M <i>Lecturer</i>	L	19/20 LMU Statistics Department
SOCIAL OUTREACH		
ThinkTech g.e.V. Vice President		2019 – 2021 Munich
ThinkTech g.e.V. Member		2018 – now Munich
WeRePack Team Member		2017 - now Munich