

Frederik Baucks

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Frederik Baucks

I am a mathematician and PhD student in the field of educational data mining. Always looking for the simplest model for complex tasks with a sharp eye on model assumptions, validity, and reliability. My current scientific projects focus on item response theory and related differential functioning in collaboration with CMU and UC Berkeley.



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Education

Since 05/2021	PhD Student in Computer Science Research topic: Educational data mining on examination data using statistics & machine learning	Ruhr-University Bochum
10/2018 - 03/2021	M. Sc. Mathematics Focus: Numerical and industrial mathematics	University Duisburg-Essen
04/2015 - 10/2018	B. Sc. Business Mathematics Focus: Functional analysis	University Duisburg-Essen

Professional Experience

Since 05/2021	Research assistant: Neural Computation Institute Teaching python & machine learning	Ruhr-University Bochum
09/2020 - 02/2021	Internship: Techno-economic systems analysis Optimization of energy system models	Research Center Jülich
04/2018 - 05/2018	Internship: Controlling Implemented a statistical forecast (Holth-Winter)	OptaData, Essen
10/2017 - 03/2020	Student assistant: Chair of Analysis Lecture-related exercises and grading	University Duisburg-Essen

IT Skills

Programming	Python (active) Matlab, R (active), C++	Advanced Basic
Databases	SQL, IBM Cognos TM1	Basic

Stays Abroad & Conferences

02/2023	Conference: AAAI'23 Presentation of a workshop paper	Washington, DC
05/2022	Conference: EDM'22 Presentation of a paper	University Durham
07/2020	EUGLOH Summerschool Courses on Biomedical Data Processing	University Szeged
02/2020 - 07/2020	Semester abroad ERASMUS+: Financial Mathematics and MCMC simulation	University Porto
08/2019	Summerschool PROMOS funding from the DAAD: "Regularization Methods & Geometric Control Theory"	University Jyväskylä

Scholarships

Since 10/2020	E-fellows.net Scholarship Ideal support and network membership	E-fellows.net
10/2020 - 04/2021	Fiedler Scholarship Funding for excellence from the Fiedler family	University Duisburg-Essen
02/2020 - 02/2021	DiMento Scholarship Mentorship at Research Center Jülich	University Duisburg-Essen
10/2019 - 10/2020	Deutschland Scholarship Funding for excellence from the Deichmann Foundation	University Duisburg-Essen

Voluntary Activities

10/2018 - 10/2019	Mentor for Incoming Students	University Duisburg-Essen
10/2018 - 10/2019	Member of the Faculty Council	University Duisburg-Essen
12/2017 - 10/2021	Member of the Mathematics Student Council	University Duisburg-Essen

Interests

I am a passionate endurance sports enthusiast, let's plan a session!