# 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.

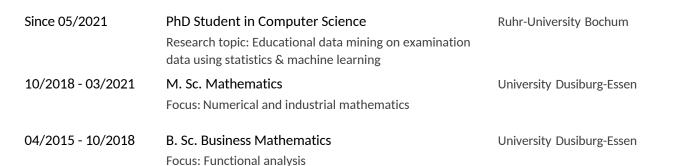
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#### Education



### **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)	Advanced
	Matlab, R (active), C++	Basic
Databases	SQL, IBM Cognos TM1	Basic

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## Stays Abroad & Conferences

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

# Scholarships

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

## **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!

