

# Jan Bauer

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## EDUCATION

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### PhD Student

University of Basel

Faculty of Business and Economics (Chair of Econometrics and Statistics)

*currently*

### Mathematics-Economics, M.Sc.

University of Copenhagen

Thesis: Evaluating Direct Multi-Step Forecasts

2017

### Business Mathematics, B.Sc.

University of Mannheim

Thesis: Biplots in Principal Component and Correspondence Analysis

2015

## WORKINGS

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### Research Assistant

Baden-Wuerttemberg Cooperative State University Mannheim

Faculty of Business and Economics (Chair of Business Informatics - Data Science)

*since 2019*

### Research Assistant

University of Mainz

Faculty of Law, Management and Economics (Chair of Management and Social Meida)

2018

## LIST OF PUBLICATIONS

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J. O. Bauer, B. Drabant, [Regression based thresholds in principal loading analysis](#), *submitted* (2022)

J. O. Bauer, R. Holzapfel, [prinvars: Principal Variables](#), *R package version 0.1.1.* (2022)

J. O. Bauer, [Correlation Based Principal Loading Analysis](#), *Proceedings of the 2021 4th International Conference on Mathematics and Statistics* (2021)

J. O. Bauer, B. Drabant, [Principal loading analysis](#), *Journal of Multivariate Analysis* (2021)

## LIST OF PUBLICATIONS (MEDICAL SCIENCE)

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G. Frongia, N. Souri, P. Grieshaber, T. Loukanov, M. Gorenflo, R. N. Vuille-Dit-Bille, J. O. Bauer, A. Mehrabi, P. Günther, P. Saur, The postoperative C-reactive protein value predicts the need for laparotomy following cardiac surgery for congenital heart disease in children - An analysis of 1013 consecutive cases, *submitted* (2022)

G. Frongia, D. Weitz, J. O. Bauer, P. Probst, F. Steffens, D. Pfisterer, A. Mehrabi, P. Günther, [Quality of Life Improves Following Laparoscopic Hemifundoplication in Neurologically Non-Impaired Children with Gastroesophageal Reflux Disease: A Propensity Score-Matched Analysis](#), *Journal of Investigative Surgery* (2020)

## SUPPLEMENTARY

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### **Conference Speaker (upcoming)**

International Conference on Computational Statistics, Bologna

Topic: Sparse principal loading analysis

*August 2022*

### **Colloquium: Topics in Advanced Mathematics**

Lecture for PhD students at the University of Basel

held by Prof. Dr. Ola Mahmoud (University of St. Gallen)

2022

### **Colloquium: Machine Learning for Economists and Business Analysts**

Lecture for PhD students at the University of Basel

held by Prof. Dr. Anthony Strittmatter (Polytechnic Institute of Paris)

2022

### **Conference Speaker**

International Conference on Mathematics and Statistics, Paris

Topic: Correlation based principal loading analysis

2021

### **Workshop: Econometric Analysis of Experimental Data**

Three-day workshop at the University of Mainz

held by Prof. Dr. Charles Bellemare (Laval University)

2018

## TEACHING (LECTURES)

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### **Applied Optimization Techniques (in German)**

Baden-Wuerttemberg Cooperative State University Mannheim

B. Sc. Business Informatics\study program Data Science

*Summer Term 2022, 2021 and 2020*

### **Statistics (in English)**

Baden-Wuerttemberg Cooperative State University Mannheim

B. Sc. Business Informatics\study program Data Science

*Winter Term 2021/22, 2020/21 and 2019/20*

### **Introduction to Artificial Neural Networks (in English)**

Baden-Wuerttemberg Cooperative State University Mannheim

B. Sc. Business Informatics\study program Sales & Consulting

*Summer Term 2019*

## SUPERVISION

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### **Bachelor Theses**

Ethan Kelly (2020)

Felix Bartler (2020)

Tim Kauer (2021)

Ron Holzapfel (2022)

## **Undergraduate Research Paper**

Ethan Kelly (2019)

Lola Centini (2019)

Niko Lockenvitz (2019)

Sepehr Nemat (2019)

Tim Bauhoff (2019)

Johannes Deufel (2020)

Fabian Creutz (2021)

Ron Holzapfel (2021)

Antoine Fuchs (2022)

Jasmina Pascanovic (2022)

Maximilian Graf (2022)

Michel Medved (2022)