

# David Bälz



## Personal



15 June 1986



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## Summary

Enthusiastic economist.

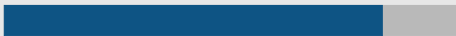
Experience in machine supported text analysis, patent data and emerging technologies.

Passion for learning and teaching.

## Skills

### IT

Microsoft Office



Python



SQL



Mathematica



### Languages

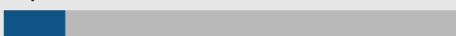
German



English



Spanish



### Soft Skills

Presenting



Team Work



## Work Experience

- Since 2015 **Research And Teaching Assistant** (details on 2nd page)
- Scientific support in project work and project acquisition
  - Independent research in the field of patent analysis
  - Exercises, lectures, and supervision of bachelor and master theses
- Chair in Economic Policy, Karlsruhe Institute of Technology.
- 2013–2015 **Student Research Assistant**
- Project BENEFIT on the financing of transport infrastructure
  - Analysis of European freight data
- Chair of Network Economics, Karlsruhe Institute of Technology.
- 2012 **Internship** (controlling and marketing)  
Cockpit Charlie GmbH, Heilbronn.
- 2005–2006 **Alternative Civilian Service**  
Assistant in the geriatric psychiatry ward,  
Klinikum am Weissenhof, Weinsberg.

## Education

- Since 2017 **Ph.D. candidate** (Department of Economics and Management)  
Patent and publication analysis, text mining, emerging technologies,  
Karlsruhe Institute of Technology.
- 2013–2015 **M.Sc. in Economics Engineering** (grade 1.3)  
Specialising in Network and Transport Economics,  
Karlsruhe Institute of Technology.
- 2006–2013 **B.Sc. in Economics Engineering** (grade 1.9)  
Karlsruhe Institute of Technology.
- 1992–2005 **Abitur / A level** (grade 2.3)  
Justinus-Kerner-Gymnasium, Weinsberg.

## Personal Interests

### Playing the guitar

Steel-string acoustic guitar player for nearly 15 years. What I lack in talent, I make up for with passion. Occasionally also teaching.

### Cycling

Taking my bike to explore the nature of the nearby Rhein area helps me to put things into perspective and gives me some physical exercise.

## References

### Prof. Dr. Ingrid Ott

Chair in Economic Policy, Karlsruhe Institute of Technology,

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### Prof. Dr. Kay Mitusch

Chair of Network Economics, Karlsruhe Institute of Technology,

[kay.mitusch@kit.edu](mailto:kay.mitusch@kit.edu) +49 721 608 43071

### Research And Teaching Assistant

Chair in Economic Policy,  
Karlsruhe Institute of Technology

#### Projects

Scientific assistant of Prof. Dr. Ingrid Ott in the Commission of Experts for Research and Innovation (EFI) of the German federal government:

- Report 2018 with focus on autonomous systems
- Report 2017 with focus on the internationalisation of R&D
- Report 2016 with focus on robotics

#### Research

My research interest lies in the machine supported analysis of textual data, especially patents and scientific publications. Using topic modelling and other methods of (unsupervised) machine learning, I try to identify patterns in emerging technologies. New technologies and innovations contribute significantly to economic growth and thereby to the prosperity of a society.

#### Teaching (in German and English)

- Lecture *Methods in Economic Dynamics* (with Prof. Dr. Ingrid Ott).
- Exercises accompanying the lectures of Prof. Dr. Ingrid Ott in *Spatial Economics* (master) and *Basic Principles of Economic Policy* (bachelor).
- Seminars (with Prof. Dr. Ingrid Ott), e.g. *Special topics in text mining*.
- Supervision of bachelor and master theses in the field of topic modelling and patent analysis.
- A comprehensive list of my teaching activities can be found here: <http://wipo.econ.kit.edu>

#### Administration

- IT representative of the chair
- Planning, coordinating and executing written examinations of the chair
- Crediting of exchange students' courses taken abroad and during former studies and coordinating the modular course system of the chair