

# Dr. Dennis Ulbrich

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## EDUCATION

### Dr. rer. nat. in Mathematics

University of Bremen

4.2017 – 9.2021

- PhD thesis: Ergodic theory of nonlinear waves in discrete and continuous excitable media
- Advisors: [Prof. J. Rademacher](#), [Prof. M. Keßeböhmer](#)
- Referees: Prof. J. Rademacher (University of Bremen), [Prof. I. Melbourne](#) (Warwick University)
- cf. [MGP](#)

### Brückensтипендиум of the University of Bremen

University of Bremen

4.2016 – 4.2017

- Further studies
- Extensions of the results of my Master's thesis
- Successful acquisition of third-party funding (DFG) for my PhD project

### M.Sc. and B.Sc. in Mathematics

University of Bremen

until 4.2016

- M.Sc. thesis: Dynamics of the three-state 1D Greenberg-Hastings cellular automaton
  - Referees: Prof. J. Rademacher, [Dr. T. Samuel](#) (University of Exeter)
- B.Sc. thesis: Unerwartete Fehler bei bedingten Erwartungswerten und Wahrscheinlichkeiten
  - Referees: [Prof. W. Brannath](#) (University of Bremen), [Dr. K. Falk](#) (University of Kiel)

## EMPLOYMENT

### DATA SCIENTIST

#### Freelance, Multiple Clients

Jan 2020 – June 2021

Providing data collection, pre-processing, exploratory analysis and modelling services to clients in the early R&D stages of developing data driven products. Projects include:

- Data description and preliminary product feasibility insights for a start-up real estate bond platform; including assessing suitability of various property transaction databases for use in initial product prototype.
- Development of statistical anomaly detection regimes and key historical insights from internet quality time-series data for use in parametric insurance products, including documenting analysis tools in an R package.

## OTHER

- Talk: [Misadventures with Reproducibility in R](#) (30 Nov 2022, R Ladies Melbourne Meetup)

- Talk: [Designing R Packages](#) (4 Oct 2022, Monash EBS Data Science Research Software Study Group)
- Talk: [Quarto Websites as Research Compendiums](#) (16 Aug 2022, Monash EBS Data Science Research Software Study Group)
- Workshop: [Writing academic papers with Rmarkdown and friends](#) (9 Aug 2022, Monash University)

## REFERENCES

Available upon request