

# Thom Benjamin Volker

Utrecht, The Netherlands

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 [GitHub](#)

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 [LinkedIn](#)

## EDUCATION

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### MSc Methodology and Statistics

2019 - 2022

*Utrecht University, Netherlands*

*Cum laude (GPA 8.9/10)*

- Thesis - Combining support for hypotheses over heterogeneous studies with Bayesian Evidence Synthesis: A simulation study (supervised by [Prof. Dr. Irene Klugkist](#)).

### MSc Sociology and Social Research

2019 - 2022

*Utrecht University, Netherlands*

*Cum laude (GPA 8.7/10)*

- Thesis - The future is made today: Concerns for reputation foster trust and cooperation (supervised by [Prof. Dr. Ir. Vincent Buskens](#) & [Prof. Dr. Werner Raub](#)).

### BA Liberal Arts & Sciences

2016 - 2019

*Utrecht University, Netherlands*

- Major in Pedagogical Sciences; minor in Sociology and Social Research

## EXPERIENCE

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### PhD candidate Synthetic data

2020 - Current

*Utrecht University*

- Supervisor: Dr. Erik-Jan van Kesteren
- I investigate how to optimize the creation of synthetic data in terms of the risk-utility trade-off.

### Internship MICE Group

2020 - 2022

*Utrecht University*

- With [Dr. Gerko Vink](#) I established a framework on how to generate synthetic data with the R-package `mice` to preserve privacy and confidentiality.

### Research Assistant

2019 - 2022

*Utrecht University*

- For [Dr. Peter Lugtig](#), I worked on research and teaching related topics, (e.g., creating content for the research master level course 'Survey Data Analysis', by developing a [Shiny App](#), creating data visualizations and creating the webpage <https://www.peterlugtig.com>).
- For [Dr. Rebecca Kuiper](#), I created data visualizations and assisted PhD students by revising text.

### Teaching assistant

2018 - 2022

*Utrecht University*

- Thesis co-supervision:
  - Multiply imputed synthetic datasets - assessing validity of multiply imputed synthetic datasets with the R-package `mice` (Master's thesis, with [Dr. Gerko Vink](#)).
  - Comparing multiple methods of research synthesis (Bachelor's thesis, with [Prof. Dr. Irene Klugkist](#)).
- Post-graduate level courses:
  - Multiple Imputation in Practice (MIMP; Utrecht Summer School 2019-2021) - supervision of practicals and providing R assistance.
  - Statistical Programming with R (Utrecht Summer School 2021) - supervision of practicals.
  - Advanced Survey Design - supervision of practicals.
- Master's level courses:
  - Network Analysis (2020-2021) - developing practical assignments and supervising the practicals.
  - Methodological and Statistical Aspects of Social Science Research - teaching working groups of about 20 persons on topics ranging from multiple regression to moderation and mediation analysis.
- Bachelor's level courses:

- Theory Construction and Statistical Modeling - teaching practicals on structural equation modeling using `lavaan`.
- Various undergraduate courses on standard statistical methods.

## ASReview

2021

*Utrecht University*

- Researcher at [ASReview](#) - an open-source project that helps researchers to screen (tens of) thousands of papers automatically for inclusion in systematic reviews, meta-analyses, medical guidelines, or overviews.

## Other

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### Debuut

2019 - 2020

*Utrecht University*

- Buddy programme at Utrecht University to match potential first generation university student with actual students to get a flavour of what studying at a university entails.

## Statistical software proficiency

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- R
- MPlus
- SPSS
- HLM
- JAGS
- Learning python
- Learning C++

## Publications

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Volker, T. B., & Vink, G. (2021). Anonymiced shareable data: Using mice to create and analyze multiply imputed synthetic datasets. *Psych*, 3(4), 703–716. doi: [10.3390/psych3040045](https://doi.org/10.3390/psych3040045)

## Software Vignettes

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Volker, T. B. & Vink, G. (2022). `futuremice`: The future starts today. [https://www.gerkovink.com/futuremice/Vignette\\_futuremice.html](https://www.gerkovink.com/futuremice/Vignette_futuremice.html)

## Software development

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- `mice` [ctb] - Developed functionality to pool inferences from synthetic data and implemented `futuremice` to speed up imputation by using user-friendly parallel processing.
- `ggmice` [ctb] - Adjusted functionality to allow for visualization of synthetic data.