

Dr. Tim Angelike

Education

- 02/2024 **Dr.rer.nat in Psychology**, Heinrich-Heine-Universität Düsseldorf
Thesis title: Methods for Measuring and Modelling Randomness in Human-Generated Number Sequences
- 07/2023 **B.Sc. Computer Science**, Heinrich-Heine-Universität Düsseldorf
Thesis title: An investigation into algorithmic complexity as a measure of randomness
- 09/2021 **M.Sc. Psychology**, Heinrich-Heine-Universität Düsseldorf
Thesis title: Testing the assumptions of dual process theory: The influence of cognitive load on strategic behavior in rock-paper-scissors
- 07/2019 **B.Sc. Psychology**, Heinrich-Heine-Universität Düsseldorf
Thesis title: An experimental validation of an axiomatically derived scoring rule for the assessment of partial knowledge

Work Experience

- seit 10/2025 **Academic Researcher**,, Psychological Methods (Prof. Dr. Daniel Heck), Philipps-Universität Marburg
- 10/2021 - 09/2025 **Academic Researcher**,, Psychological Assessment and Differential Psychology (Prof. Dr. Jochen Musch), Heinrich-Heine-Universität Düsseldorf
- 09/2024 - 08/2025 **Academic Researcher**,, Research Methods, Assessment, and iScience in the department of Psychology (Prof. Dr. Ulf-Dietrich Reips), Universität Konstanz
- 04/2021- 09/2021 **Student Assistant**, Psychological Assessment and Differential Psychology (Prof. Dr. Jochen Musch), Heinrich-Heine-Universität Düsseldorf
- 10/2017- 06/2021 **Student Assistant**, General Psychology and Work Psychology (Prof. Dr. Axel Buchner), Heinrich-Heine-Universität Düsseldorf

Stipendium

- 10/2018- 09/2021 **German National Scholarship [Deutschlandstipendium]**, Heinrich-Heine-Universität Düsseldorf

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Skills

Languages	German (native), English (fluent), Spanish (B1/B2)
Software	R, Stan, Python, PyTorch, JAGS, JavaScript, HTML, CSS, Java, C, L ^A T _E X, Linux, Git

Publications

8. **Angelike, T.** & Reips, U.-D. (2025). *Measurement Error is lower for Visual Analogue Scales than for Slider Scales* [under preparation]
7. **Angelike, T.**, Funke, F., & Reips, U.-D. (2025). *Reducing measurement error by tackling formatting error: Theoretical and empirical evidence for high data quality with visual analogue scales* [under preparation]
6. **Angelike, T.**, & Musch, J.(2025). *A comparison of algorithmic complexity and entropy for the detection of patterns in short human-generated random sequences* [under review]
5. **Angelike, T.**, Diedenhofen, D., & Musch, J.(2025). *An experimental validation of an axiomatically derived scoring rule for the assessment of partial knowledge* [under review]
4. Papenberg, M., & **Angelike, T.** (2025). Balancing covariates among experimental conditions with anticlustering *PsyArXiv*. https://doi.org/10.31234/osf.io/dpcyf_v1 [under review]
3. **Angelike, T.**, & Papenberg, M.(2025). Preventing dataset shift during cross-validation: Is it worth it? *OSF*. https://osf.io/preprints/osf/b5fus_v1 [under review]
2. **Angelike, T.**, & Musch, J.(2025). An improved modeling approach to investigate biases in human random number generation. *PLOS ONE*, 20(5), e0324870. <https://doi.org/10.1371/journal.pone.0324870>
1. **Angelike, T.**, & Musch, J.(2024). A comparative evaluation of measures to assess randomness in human-generated sequences. *Behavior Research Methods*, 56(7), 7831-7848. <https://doi.org/10.3758/s13428-024-02456-7>

Software

1. **Angelike, T.** (2022). *randfindR: Analysis of randomness in human-generated sequences*. <https://github.com/TimA97/randfindR>

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Talks

5. Reips, U.-D. & **Angelike, T.** (2025). *Visual Analogue Scales versus Slider Scales: Measurement Error*. Vortrag auf der Society for Computation in Psychology auf der Psychonomic Society 66th Annual Meeting, Denver (USA).
4. **Angelike, T.** & Reips, U.-D. (2025). *Theoretical and empirical evidence for high data quality with visual analogue scales*. Vortrag auf der 67. Tagung experimentell arbeitender Psycholog:innen (TeaP), Frankfurt.
3. **Angelike, T.** (2024). *Methods for measuring and modelling randomness in human generated number sequences*. Gastvortrag in der Abteilung für Forschungsmethoden, Diagnostik und iScience im Fachbereich Psychologie, Universität Konstanz.
2. **Angelike, T.**, & Musch, J. (2024). *An improved modeling approach to investigate biases in human random number generation*. Vortrag auf der 66. Tagung experimentell arbeitender Psycholog:innen (TeaP), Regensburg.
1. **Angelike, T.**, Diedenhofen, B., & Musch, J. (2023). *Experimental Validation of a New Axiomatically Derived Scoring Rule for the Subset Selection Response Format*. Vortrag auf der Society for Computation in Psychology auf der Psychonomic Society 64th Annual Meeting, San Francisco (USA).

Ad hoc Reviewer

Cognition, Psychological Science

Teaching

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|-----------|---|
| 2025 | Seminar , Diagnostic Methods (B.Sc.), Heinrich-Heine-Universität Düsseldorf |
| 2024-2025 | Seminar , Introduction to the analysis of human generated random numbers (B.Sc.), Universität Konstanz |
| 2021-2024 | Internship , Laboratory Course in Experimental Research [Experimentalpraktikum] (B.Sc.), Heinrich-Heine-Universität Düsseldorf |
| 2022 | Seminar , Test theory and test construction: Introduction to the programming language R (M.Sc.), Heinrich-Heine-Universität Düsseldorf |

Thesis Supervision

4 Master theses and 9 Bachelor theses

Awards

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- 2025 **Teaching Award**, Recipient of the EduArt Teaching Award from the Psychology Student Association at the University of Düsseldorf
- 2023 **Teaching Award**, Recipient of the EduArt Teaching Award from the Psychology Student Association at the University of Düsseldorf

Sonstiges

- 10/2018 - **Faculty Activity**, elected student representative in the board of the
09/2020 mathematical and scientific faculty, Heinrich-Heine-Universität Düsseldorf

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