Edgar J. **Treischl**

SENIOR RESEARCH FELLOW

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About me

I work as senior research fellow at the University Erlangen-Nuremberg in Germany. Most of my prior research was about evaluation, but I am interested in data science, causal inference, and quantitative methods. Besides research, I am accountable for IT and the webmaster at the chair. In my spare time I go jogging, swimming or do a bike tour.

Work Experience

Since 2019 Postdoctoral researcher at the chair "Empirical Economic Sociology" (T. Wolbring)

University of Nuremberg

– Conducted factorial survey experiments to examine the acceptance of AI-based applications
– Built R Packages: CopyCat, Practice R (available on Github)
– Webmaster and accountable for the IT

2017–2019 Research assistant at the chair "Empirical Economic Sociology" (T. Wolbring)

University of Nuremberg

– Coordination of the master programme "Social Economics"
– Programmed several R Shiny apps for teaching purposes (available on my website)
– Webmaster of the chairs' wordpress website

2016–2017 Research Assistant at the chair "Statistics and Methodology" (F. Kreuter)

University of Mannheim

– Teaching, supervision of BA/MA theses, and part of the organization of a hackathon
– Member of graduate school with courses in NLP, R for programming, panel data analysis
– Project assistant at the Mannheim Centre for European Social Research (T. Wolbring)

2013–2016 Research assistant at the chair "Quantitative Social Research" (J. Brüderl & S. Pointner)

LMU Munich

– Conducted field experiments to identify the causal effect of survey mode in student evaluation (SET)
– Responsible for the transition from paper-based to online-based SET at the social science department
– Developed dashboards to automate the communication of evaluation results
– Consulting: Evaluation of Secondary Schools (in cooperation with the Pedagogical Institute, Munich)

2009–2013 Student Assistant at the University of Munich (Norman Braun Ph.D)

2007–2009 Freelancer TNS Infratest Munich (Quantitative research, automotive)

Education

2015–2019	PhD in Quantitative Social Sciences (Dr. rer. soc.)	*Mannheim*
2007–2013	Diploma in Sociology (Dipl.-Soz.)	*Munich*
2005–2007	Pre-degree in Social Education (Higher Education Entrance Qualification)	*Coburg*
2004–2005	Voluntary social year	*Augsburg*
2002–2004	College Entrance Qualification (Fachhochschulreife)	*Augsburg*
2000–2002	Secondary Education Certificate (Mittlere Reife)	*Augsburg*

Teaching Portfolio (Excerpt)

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##   Course                            Type    Level
## 1 Empirical Methods and Statistics  Seminar Bachelor
## 2 Introduction to Educational Research  Lecture Master
## 3 Applied Data Analysis (R/STATA/SPSS)  Seminar Bachelor
## 4 Experiments in Social Sciences    Seminar Bachelor
## 5 'Classics' of Social Science Research Seminar Master
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Publications

Monographs

Treischl, E. (2019): *Selection Effects in Students' Evaluation of Teaching. Methodological Pitfalls for the Measurement of Teaching Quality.* Mannheim: University of Mannheim (Inaugural dissertation).

Treischl, E. & Wolbring, T. (2020): *Wirkungsevaluation. Grundlagen, Standards, Beispiele.* Weinheim Basel: Beltz Juventa (Standards standardisierter und nichtstandardisierter Sozialforschung). 168 Seiten. *A preview is online available.*

Treischl, E. (2022): Practice R. Berlin/Boston: De Gruyter Oldenbourg. Expected for 02/2022, approx. 350 Pages, *De Gruyter Oldenbourg.*

Articles in Refereed Journals

Wolbring, T. & Treischl, E.(2016): Selection Bias in Students' Evaluation of Teaching. Causes of Student Absenteeism and Its Consequences for Course Ratings and Rankings. Research in Higher Education, 57 (1), p. 51–71.

Treischl, E. & Wolbring, T.(2017): The Causal Effect of Survey Mode on Students' Evaluations of Teaching. Empirical Evidence from Three Field Experiments. Research in Higher Education, 58 (8), p. 904–921.

Treischl, E. & Wolbring, T. (2021): Past, Present and Future of Factorial Survey Experiments: A Review for the Social and Behavioural Sciences. Accepted with minor revisions: *Methods, Data, Analysis.*

Handbook Articles

Treischl, E. & Wolbring, T. (2017): Studentische Lehrveranstaltungsevaluation. Grundlagen, Befunde, methodische Fallstricke. Handbuch Qualität in Studium und Lehre. E7.20.

Treischl, E., Laumer, S., Schömer, D., Weigert, J., Wilbers, K., & Wolbring, T. (2020): Give a little, take a little? A Factorial Survey Experiment on Students' Willingness to Use an AI-based Advisory System and to Share Data. In: Wolbring, T.; Leitgöb, H.; Faulbaum, F.: Sozialwissenschaftliche Datenerhebung im digitalen Zeitalter. Springer VS, Wiesbaden.

Schömer, D., Laumer, S., Treischl, E., Weigert, J., Wilbers, K., & Wolbring, T. (2021): Data-driven Student Advisory and Discrimination: A Literature Review on Machine Learning for Predicting Students' Academic Success. *Americas Conference on Information Systems.*

Presentations

International Conferences

What determines students' willingness to share data? Evidence from a Factorial Survey Experiment. The International Conference on Social Science Methodology (RC33), Nicosia, Cyprus, September 2020 (with Tobias Wolbring).

Can a Factorial Survey be Used to Improve our Understanding of Teaching Quality? 8. Conference of the European Survey Research Association, Zagreb, July 2019 (with Anna-Lena Hönig).

How To Find a Needle in the (Teaching) Hay Stack? International Studies Association Annual Conference 2019, Toronto, March 2019 (with Anna-Lena Hönig).

Past, Present and Future of Factorial Surveys Experiments. European Sociological Association Midterm Conference of RN 21 - Quantitative Methods , Cracow, October 2018.

What's the Teaching Impact? The Causal Effect of Single Teaching Dimensions on Students' Evaluation of Teaching, International Studies Association Annual Conference 2018, San Francisco, April 2018 (with Anna-Lena Hönig).

Skills

– **Data, Statistics, and Programming: R, Stata, Python, SQL**

– **Processing: Markdown, LaTeX, Office**

– **Visualization: R (shiny, ggplot2, etc.), Adobe, Tableau**

– **Web: HTML, CSS, D3.js**

– **Languages: German (Native speaker), English, Dutch, Spanish**