Marcel Neunhoeffer, M.A.

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Research Interests

Quantitative Methods in the Social Sciences, Machine Learning, Deep Learning, Big Data, Privacy in Social Science Research, Differential Privacy, Data Visualization, (Field-) Experimental Research, Campaigns, Voting Behavior, Social Media

Current Position

08/2016 – present	**University of Mannheim** Research Associate, Quantitative Methods in the Social Sciences (Prof. Thomas Gschwend, PhD)

Education

08/2016 – present	**Graduate School of Economic and Social Sciences, University of Mannheim** PhD Candidate
01/2019 – 03/2019	**Simons Institute for the Theory of Computing, University of California, Berkeley** Visiting PhD Student, Data Privacy: Foundations and Applications
09/2014 – 08/2016	**University of Mannheim** Master of Arts in Political Science
09/2011 – 12/2011	**Semester Abroad** Illinois State University, Normal, USA
09/2009 – 05/2013	**University of Passau** Bachelor of Arts in Governance and Public Policy Majors: Political Science, Economics

Academic Teaching Experience

Fall 2016, 2017, 2018	Multivariate Analyses, Graduate (in English)
Spring 2017, 2018, 2019	Advanced Quantitative Methods, Graduate (in English)
Spring 2017	Applied Marketing Research, Graduate (in German, University of Applied Sciences Ludwigshafen)

Professional Teaching Experience

03/2019	*Workshop: Supervised and unsupervised Machine Learning and Deep Learning*, Bundesbank, Frankfurt am Main (in English)
02/2018	*Workshop: Introduction to R*, Geschäfststelle für Qualitätssicherung Hessen, Eschborn (in German)

Publications (Peer-reviewed)

Lukas F. Stoetzer, Marcel Neunhoeffer, Thomas Gschwend, Simon Munzert & Sebastian Sternberg, 2019. Forecasting Elections in Multi-Party Systems: A Bayesian Approach Combining Polls and Fundamentals. *Political Analysis* 27 (2): 255-262.

Marcel Neunhoeffer & Sebastian Sternberg, 2019. How Cross-Validation Can Go Wrong and What to Do About it. *Political Analysis* 27 (1): 101-106.

Lukas F. Stoetzer, Simon Munzert, Thomas Gschwend, Marcel Neunhoeffer & Sebastian Sternberg, 2017. Ein strukturell-dynamisches Vorhersagemodell für Bundestagswahlen. *Politische Vierteljahresschrift* 58 (3): 418-442.

Reviews

Marcel Neunhoeffer, 2018. Book Review: In-Your-Face Politics: The Consequences of Uncivil Media by Diana C Mutz. *Political Studies Review* 16 (1): NP76.

Work in Progress

Marcel Neunhoeffer, 2018. Deep Multiple Imputation: Using Mixture Density Networks to Impute Missing Values. Working Paper.

Christian Arnold, Marcel Neunhoeffer & Sebastian Sternberg, 2018. Solving the Gridlock Between Data Privacy and Data Sharing with Deep Learning. Working Paper.

Marcel Neunhoeffer, 2017. A Partisan Treatment in a High Salience Election: Evidence from a Field Experiment in Germany. Working Paper.

Invited Talks

02/2019 **International Methods Colloquium**
"Flexible Multiple Imputation for Social Science using Generative Adversarial Nets"

Conference Presentations

03/2019 **5th DAGStat Conference, Munich**
"Releasing Differentially Private Synthetic Micro-Data with Bayesian GANs"

03/2019 **5th DAGStat Conference, Munich**
"Generative Adversarial Imputation Nets for Small Area Estimation"

01/2019 **4th Annual PSA Methodology Conference, Warwick**
"Solving the Gridlock Between Data Privacy and Data Sharing with Deep Learning"

08/2018 **114th APSA Annual Meeting and Exhibition, Boston**
"Solving the Gridlock Between Data Privacy and Data Sharing with Deep Learning"

07/2018 **35th Annual Meeting of the Society for Political Methodology, Provo**
"Deep Multiple Imputation: Using Mixture Density Networks to Impute Missing Values"

09/2017 **European Consortium for Political Research General Conference, Oslo**
"A Dynamic Forecasting Model for the 2017 German Federal Election."

06/2017 **7th European Political Science Association General Conference, Milan**
"A Partisan Treatment in a High Salience Election: Evidence from a Field Experiment in Germany"

06/2017 **7th European Political Science Association General Conference, Milan**
"A Dynamic Forecasting Model for the 2017 German Federal Election."

Honors and Awards

12/2018 **IPID4all Travel Grant, University of Mannheim**
Funding for the Research Stay at University of California, Berkeley (3,739 EUR)

09/2018 **Publication of the Year Award**
Awarded by the CDSS and GESS at the University of Mannheim for "How Cross-Validation Can Go Wrong and What to Do About it" (1,000 EUR) with Sebastian Sternberg

Reviewer

American Political Science Review, British Journal of Political Science, Party Politics, Political Analysis, Political Science Research and Methods

Public Outreach

10/2018	Thomas Gschwend, Thomas König, Marcel Neunhoeffer (14 October 2018): **"Wie das bayerische Wahlrecht die CSU begünstigt." [How the electoral rules in Bavaria favor the CSU.]** Zeit Online.
09/2017	Thomas Gschwend, Simon Munzert, Marcel Neunhoeffer, Sebastian Sternberg & Lukas F. Stoetzer (23 September 2017): **"New German election forecast: Merkel's party will win but lose seats."** The Washington Post, Monkey Cage.
09/2017	Sebastian Sternberg & Marcel Neunhoeffer (1 September 2017): **"Das Rennen um Platz drei bleibt spannend." [The race for the third place is a tight one.]** Tagesspiegel, Causa.
05/2017 – present	**Co-founder and contributor** zweitstimme.org, German Federal Election Forecast

Skills

- Languages: German (native), English (fluent), French (basic)
- (Statistical) Software: R, Python, TensorFlow, Keras, Stan, Stata, SPSS
- Other: html, Amazon Web Services (S3, EC2), GitHub

References

- Prof. Thomas Gschwend,
  Professor and Chair of Political Science, Quantitative Methods in the Social Sciences, University of Mannheim,
  gschwend@uni-mannheim.de, +49 (0)621-181-2087
- Prof. Frauke Kreuter,
  Professor of Methods and Statistics, University of Mannheim,
  frauke.kreuter@uni-mannheim.de, +49 (0)621-181-2003