Sebastian Sternberg

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Research Interests

Machine Learning/Deep Learning, Predictive Modelling, Text Analysis, Empirical Legal Studies, Judicial Behavior

Education

09/2015 – 07/2019	**Graduate School of Economic and Social Sciences, University of Mannheim**
	Dr. rer. soc. (PhD) Political Science (*summa cum laude*); Title: *No Public, No Power? Analyzing the Importance of Public Support for Constitutional Review with Novel Data and Machine Learning Methods*
10/2013 – 08/2015	**University of Konstanz, Institut d'Études Politiques de Grenoble**
	Double Degree Master of Arts in Public Administration and European Governance (with distinction, mention très bien)
09/2012 – 01/2013	**Semester Abroad**
	Institut d'Études Politiques de Lille
09/2010 – 08/2013	**University of Mannheim**
	Bachelor of Arts in Political Science and Public Law

Academic Teaching Experience

Spring 2019	Data Analysis, Undergraduate (in English)
Fall 2018	Multivariate Analyses, Graduate (in English)
Spring 2018	Data Analysis, Undergraduate (in English)
Fall 2017	Multivariate Analyses, Graduate (in English)
Spring 2017	Data Analysis, Undergraduate (in English)
Spring 2016	Data Analysis, Undergraduate (in English)

Professional (Teaching) Experience

March 2019	*Workshop Big Data and Deep Learning*, Bundesbank, Frankfurt am Main
Februar 2018	*Workshop introduction to R*, Geschäfstelle für Qualitätssicherung Hessen, Frankfurt am Main

November 2017	*Workshop for Supervised and Unsupervised Machine Learning*, Bundesbank, Frankfurt am Main

Further Training

Fall 2018	Computational Text Analysis (Dr. Federico Nanni)
Fall 2018	Data Visualization (Prof. Richard Traunmüller)
Spring 2017	Introduction to Machine Learning (Dr. Christoph Kern)
Spring 2017	Bayesian Analysis II (Prof. David Kaplan)
Spring 2017	Bayesian Analysis I (Prof. Richard Traunmüller)
Fall 2016	Webscraping & Automated Data Collection (Dr. Simon Munzert)
Fall 2016	Big Data in the Social Sciences (Prof. Frauke Kreuter)
Fall 2016	Game Theory (Prof. Thomas Bräuninger)
Spring 2016	Programming in R (Dr. Daniel Heck)
Spring 2016	Computer Based Content Analysis (Dr. Sanja Stajner)
Spring 2017	Advanced Quantitative Methods (Prof. Thomas Gschwend)
Fall 2015	Multivariate Analyses (Prof. Thomas Gschwend)

Publications (Peer-reviewed)

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

Lukas Stoetzer, Thomas Gschwend, Marcel Neunhoeffer, Simon Munzert, Sebastian Sternberg 2018. . Forecasting Elections in Multi-Party Systems: A Bayesian Approach Combining Polls and Fundamentals. *Political Analysis 27 (2): 255-262.*

Thomas Gschwend, Benjamin Engst, Caroline Wittig, Nils Schaks, Sebastian Sternberg, 2017. Zum Einfluss der Parteinähe auf das Abstimmungsverhalten der Bundesverfassungsrichter - Eine quantitative Untersuchung. *Juristen Zeitung*, 72(17): 816–826

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

Sebastian Sternberg, Thomas Gschwend, Caroline Wittig, and Benjamin G. Engst. 2015. Zum Einfluss der öffentlichen Meinung auf Entscheidungen des Bundesverfassungsgerichts. Eine Analyse von abstrakten Normenkontrollen sowie Bund-Länder-Streitigkeiten 1974-2010 *Politische Vierteljahresschrift* 56(4): 570-598

Work in Progress

Benjamin G. Engst, Thomas Gschwend, Sebastian Sternberg, 2019. Die Besetzung des Bundesverfassungsgerichts - Ein Spiegelbild gesellschaftlicher Präferenzen? *R&R*

Benjamin G. Engst, Thomas Gschwend, Sebastian Sternberg, 2018. Who sits on the Bench? Evaluation of Judicial Nominees for Constitutional Courts. *Under Review*

Christian Arnold, Marcel Neunhoeffer, Sebastian Sternberg, 2019. Solving the Gridlock Between Data Privacy and Data Sharing with Deep Learning.

Sebastian Sternberg. 2019. Why do courts craft vague decisions? Evidence from a comparative study of court rulings in Germany and France.

Sebastian Sternberg. 2018. Automatic Detection of Vagueness in Court Rulings.

Sebastian Sternberg, 2017. How to Forecast Constitutional Court Decisions? Legal Context and Political Context in a Machine Learning Framework.

Thomas Gschwend, Sebastian Sternberg, Steffen Zittlau, 2016. Are Judges Political Animals After All? Quasi-experimental Evidence from the German Federal Constitutional Court.

Conference Presentations

06/2019	**9th European Political Science Association General Conference, Belfast** "How to Forecast Constitutional Court Decisions? Legal Context and Political Context in a Machine Learning Framework"
05/2018	**8th European Political Science Association General Conference, Vienna** "Why do Courts Craft Vague Opinions? Evidence from Court Rulings in Germany and France."
05/2018	**2nd Conference on Empirical Legal Studies in Europe, Leuven** "Why do Courts Craft Vague Opinions? Evidence from Court Rulings in Germany and France."
06/2017	**7th European Political Science Association General Conference, Milan** "How Judicial Integrity Generates Public Support for Judicial Nominees"
09/2016	**European Consortium for Political Research General Conference, Prague** "Ideology, Law and Professional Background. Explaining Dissenting Opinions in the German Federal Constitutional Court."

06/2016	**6th European Political Science Association General Conference, Brussels** "Are Judges Political Animals After All? Quasi-experimental Evidence from the German Federal Constitutional Court."
06/2016	**First Conference on Empirical Legal Studies in Europe, Amsterdam** "Are Judges Political Animals After All? Quasi-experimental Evidence from the German Federal Constitutional Court."

Honors and Awards

09/ 2014	**ufa/dfh Travel Grant, Deutsch-Französische Hochschule"** Funding for Double Degree Year at Sciences Po Grenoble, France (2,040 EUR)
05/2018	**Publication of the Year Award, GESS Mannheim** 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 Marcel Neunhoeffer

Skills

Programming

- R, 5 years of professional experience, taught in multiple classes
- Python, 1 year of applied experience

Statistical Software

- Stata, 7 years of professional experience, taught in multiple classes
- SPSS, 1 year of professional experience

Others

- SQL, 1 year of professional experience in building databases for projects
- Latex, 5 years of professional experience

Languages

- Languages: German (native), English (fluent), French (advanced)

References

- Prof. Thomas Gschwend, University of Mannheim, gschwend@uni-mannheim.de, +49 (0)621-181-2087

- Prof. Christoph Hönnige, University of Hannover, c.hoennige@ipw.uni-hannover.de, +49 (0) 511-762-3881

- Prof. Sabine Saurugger, Institut d'Études Politiques de Grenoble, sabine.saurugger@sciencespo-grenoble.fr, +33 (0) 476-826-076

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