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Education

04/09-11/13	UNIVERSITY OF APPLIED SCIENCES TRIER GERMAN DIPLOMA in Computer Science (distant studies)	TRIER, GERMANY
04/09-11/12	BIELEFELD GRADUATE SCHOOL IN HISTORY AND SOCIOLOGY, BIELEFELD UNIVERSITY PHD in Sociology	BIELEFELD, GERMANY
09/07-09/08	KING'S COLLEGE LONDON MA in Conflict, Security and Development	LONDON, UK
10/02-03/07	WESTPHALIAN WILHELMS UNIVERSITY MAGISTER in Social Anthropology, Sociology and Psychology	MÜNSTER, GERMANY

Employment

08/15-	SCHOOL OF POLITICS AND INTERNATIONAL STUDIES, UNIVERSITY OF LEEDS University Academic Fellow (tenure-track) in Political Science Informatics October 2017–March 2018 on maternity leave	LEEDS, UK
09/14-07/15	DEPARTMENT OF MATHEMATICS, UPPSALA UNIVERSITY Postdoctoral Researcher	UPPSALA, SWEDEN
09/12-08/14	INSTITUTE FOR FUTURES STUDIES Postdoctoral Researcher	STOCKHOLM, SWEDEN
03/12-05/12	ETH ZÜRICH (SWISS FEDERAL INSTITUTE OF TECHNOLOGY) PROFESSORSHIP OF COMPUTATIONAL SOCIAL SCIENCE Visiting Researcher	ZÜRICH, SWITZERLAND
11/08-12/10	INSTITUTE FOR INTERDISCIPLINARY RESEARCH ON CONFLICT AND VIOLENCE, BIELEFELD UNIVERSITY Research Assistant	BIELEFELD, GERMANY

Publications

Peer-reviewed journal papers

2019	M ASHER, C LESTON-BANDEIRA & V SPAISER. Do Parliamentary Debates of e-Petitions Enhance Public Engagement With Parliament? An Analysis of Twitter Conversations. published online
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- first. *Policy & Internet*. [DOI]
- 2018 V SPAISER, K SCOTT, A OWEN & R HOLLAND. Consumption-based accounting of CO2 emissions in the Sustainable Development Goals Agenda. published online first. *International Journal of Sustainable Development & World Ecology*. [DOI]
- 2018 RP MANN, V SPAISER, L HEDMAN & DJT SUMPTER. Choice Modelling with Gaussian Processes in the Social Sciences: A Case Study of Neighbourhood Choice in Stockholm. *PLoS ONE*, 13(11), e0206687 [DOI]
- 2018 V SPAISER, D LUZZATTI & A GREGORIOU. Advancing sustainability: using smartphones to study environmental behaviour in a field-experimental setup. *Data Science. Methods, Infrastructure and Applications*. published online first. [DOI]
- 2018 M ROMENSKYY, V SPAISER, T IHLE & V LOBASKIN. Polarized Ukraine 2014: Opinion and Territorial Split Demonstrated with the Bounded Confidence XY Model, Parametrized by Twitter Data. *Royal Society Open Science*, 5, 171935. [DOI]
- 2018 I FAZEY, N SCH PKE, G CAIGLIA ... V SPAISER ... & C WYBORN. Ten essentials for action-oriented and second order energy transitions, transformations and climate change research. *Energy Research & Social Sciences*, 40, 54-70. [DOI]
- 2018 V SPAISER, P HEDSTRÖM, S RANGANATHAN, K JANSSON, MK NORDVIK & DJT SUMPTER. Identifying Complex Dynamics in Social Systems: New Methodological Approach Applied to Study School Segregation. *Sociological Methods & Research*, 47(2), 103-135. [DOI]
- 2017 V SPAISER, T CHADEFAUX, K DONNAY, F RUSSMANN & D HELBING. Communication Power Struggles on Social Media: A Case Study of the 2011-12 Russian Protests. *Journal of Information Technology & Politics*, 14(2), 132-153. [DOI]
- 2017 V SPAISER, S RANGANATHAN, R BALI SWAIN, & DJT SUMPTER. The Sustainable Development Oxymoron: Quantifying and Modelling the Incompatibility of Sustainable Development Goals. *International Journal of Sustainable Development & World Ecology*, 24(6), 457-470. [DOI]
- 2016 V SPAISER & DJT SUMPTER. Revising the Human Development Sequence Theory using an Agent-Based Approach and Data. *Journal of Artificial Societies and Social Simulation* 19(3), 1. [DOI]
- 2015 S RANGANATHAN, SC NICOLIS, V SPAISER, & DJT SUMPTER. Understanding Democracy and Development Traps using a Data-driven Approach. *Big Data* 3(1), 22-33. [DOI]
- 2014 V SPAISER, S RANGANATHAN, RP MANN & DJT SUMPTER. The Dynamics of Democracy, Development and Cultural Values. *PLoS ONE* 9(6). [DOI]
- 2014 S RANGANATHAN, V SPAISER, RP MANN & DJT SUMPTER. Bayesian Dynamical System Modelling in the Social Sciences. *PLoS ONE*, 9(1). [DOI]
- 2013 V SPAISER. Young Immigrants' Internet Political Participation in Germany. Comparing German East Europeans and German Turks. *International Journal of E-Politics*, 4(1), 1-17. [DOI]
- 2012 V SPAISER. Empowerment or democratic divide? Internet-based Political Participation of Young Immigrants and Young Natives in Germany. *Information Polity*, 17(2), 115-127. [DOI]
- 2011 V SPAISER. "Information wants to be free!" The Political Net-Activist (Youth-)Movement. (in German). *Diskurs Kindheits- und Jugendforschung*, 6(4), 403-416. [DOI]
- 2010 J MANSEL, V SPAISER. Explaining Educational Success and Failure of Young Immigrants. (in

German). *Diskurs Kindheits- und Jugendforschung*, 5(2), 209-225. [DOI]

Peer-reviewed conference papers

- 2013 S RANGANATHAN, V SPAISER, RP MANN & DJT SUMPTER. A Bayesian Approach to Modeling Dynamical Systems in the Social Sciences. In: *Proceedings of the 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2013)*. [DOI]
- 2011 V SPAISER. Young People's Political Participation on the Internet in Germany: Empowered Ethnic Minority Groups? In: *Proceedings of the 12th Annual International Digital Government Research Conference: Digital Government Innovation in Challenging Times*. [DOI]

Software / Packages / Statistical Tools

- 2013 S RANGANATHAN, V SPAISER, RP MANN & DJT SUMPTER. bdynsys. R package for Bayesian Dynamical Systems Modeling. CRAN. <http://cran.r-project.org/web/packages/bdynsys/index.html>

Book chapters

- 2012 K KRAFT, M FREIHEIT & V SPAISER. Young German Muslims and the Middle-East Conflict: A Sociology of Knowledge Based Analysis of Anti-semitic Discourse Patterns. In: G BOTSCH, O GLÖCKNER, C KOPKE & M SPIEKER (EDS.). *Islamophobia and Anti-semitism - a Controversial Comparison* (in German), De Gruyter, 227-254.
- 2012 J MANSEL & V SPAISER. Anti-semitic Attitudes among Young Nuslms: Discrimination Experiences and Transnational Influences as Explaining Factors. In: W HEITMEYER (ED.). *German Conditions Vol. 10* (in German), Suhrkamp, 220-244.
- 2011 V SPAISER. The Political Potential of the Internet: New Forms of Political Acting and the Democratic Rationalisation In: W HEITMEYER, J MANSEL & T OLK (EDS.). *Individualisation of Youth: Between Creative Innovation, Search for Justice and Social Reaction* (in German), Juventa, 120-134.
- 2010 J MANSEL & V SPAISER. Groups-focused Enmity in Relation with Existential Fears and Feelings of Loss of Control. In: W HEITMEYER (ED.). *German Conditions Vol. 8* (in German), Suhrkamp, 49-71.

Books

- 2013 V SPAISER. *New Participation Chances? How Immigrant and Non-immigrant Young People use the Internet for Political Purposes*. (in German), Beltz Juventa.
- 2013 J MANSEL & V SPAISER. *Exclusion Dynamics. When do Young People Discriminate against Outgroup Members?* (in German), Beltz Juventa.

Invited Presentations

- 2018 "Pursuing the UN Data Revolution for Sustainable Development", *Social and Economic Data*

- Science (SEDS) research seminar*, London School of Economics (LSE), UK.
- 2018 “Studying environmental behaviour with smartphones in field-experimental setups”, *School of Engineering, Research Seminar*, Newcastle University, UK.
- 2018 “Revolutions stuck on Twitter: What can data analytics of Twitter data teach us about failed revolutions and political change?”, *Mathematics for Social Activism Workshop*, Uppsala University, SWEDEN.
- 2017 “The Global Sustainable Development Goals Challenge”, Climate Exchange Interdisciplinary Seminar, Priestley International Centre for Climate, University of Leeds, UK.
- 2016 “Digital Divide or Digital Empowerment? Political Online Participation of you Immigrants in Germany”, 17. Gautinger Internetteffren, Gauting, GERMANY.
- 2015 “Communication Power Struggle on Social Media: A Case Study of the 2011-12 Russian Protests.”, Research Seminar, Oxford Internet Institute, University of Oxford, Oxford, UK.
- 2014 “School Segregation: Complex Macro-Patterns and Micro-Mechanisms”, School Choice and School Differentiation in Comparative Perspective Conference, Higher School of Economics St. Petersburg, RUSSIAN FEDERATION.
- 2013 “Hands-on Workshop: Exploring Social Data”, Modeling Emerging Norms Workshop, Interacting Minds Centre, Aarhus University, DENMARK.
- 2013 “Dynamical Systems Modeling in Social Science”, Wednesday Seminar, Department of Sociology, Stockholm University, SWEDEN.
- 2012 “Internet and Politics: From Survey Data Analysis to Twitter Data Mining”, Research seminar, Institute for Futures Studies, Stockholm SWEDEN.

Contributed Conference Presentations

- 2016 “Communication Power Struggles on Social Media: A Case Study of the 2011-12 Russian Protests”, *American Political Science Association Annual Meeting*, Philadelphia, USA.
- 2016 “The Sustainable Development Oxymoron: Quantifying and Modelling the Incompatibility of Sustainable Development Goals”, *CoSyDy Workshop on Phase Transitions in Socio-Economic Systems*, London, UK.
- 2016 “Political Polarization in Ukraine 2014: Modeling Opinion Polarization with the Bounded Confidence XY Model, validated with Twitter Data”, *2nd Annual International Conference on Computational Social Science*, Evanston, USA.
- 2015 “Building an Index for Sustainable Development Goals Using a Dynamical Systems Data Science Approach”, *Transformations 2015. People and the Planet in the Anthropocene*, Stockholm, SWEDEN.
- 2015 “A data-science study of UN Sustainable Development Goals”, *Policy-Making in the Big Data Era*, Cambridge, UK.
- 2014 “Social Media and Regime Change The Strategic Use of Twitter in the 2011-12 Russian Protests”, *GESIS Computational Social Science Winter Symposium*, Cologne, GERMANY.
- 2014 “Data-driven Modeling in the Social Sciences - A Pragmatic Approach for Policy-Makers”, *20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining: Data Science for Social*

Good, New York, USA.

- 2014 “Sustainability and Environmental Behaviour: Complex Macro Dynamics and Individual Decision Making (research idea)”, *10th Goldrain Workshop: Understanding and Mastering Complex Systems in Times of Digital Revolution*, hosted by Dirk Helbing (ETH Zürich), Goldrain, ITALY.
- 2014 “Emergent Segregation through Collective Decision-Making in School Choice”, *7th International Network of Analytical Sociology (INAS) Conference*, Mannheim, GERMANY.
- 2013 “Data-driven Bayesian Approach to Model Dynamical Social Systems”, *6th International Network of Analytical Sociology (INAS) Conference*, Stockholm, SWEDEN.
- 2011 “Young Immigrants’ Political Participation on the Internet in Germany”, *International Joint Workshop on Immigrant Inclusion by E-Participation*, University of Helsinki, FINLAND.
- 2011 “Young People’s Political Participation on the Internet in Germany: Empowered Ethnic Minority Groups?”, *12th Annual International Digital Government Research Conference: Innovation in Challenging Times*, University of Maryland, College Park, USA.
- 2010 “The Internet in the Focus of Political Youth Cultures” (in German), *35th Congress of the German Society of Sociology (DGS)*, Johann Wolfgang Goethe University, Frankfurt GERMANY.

Teaching & Supervision

Lecturing

- 2018 *Introduction to Python for Data Analytics*, 2-day training course, Leeds Institute for Data Analytics, University of Leeds, UK.
- 2018- *Global Inequalities and Development*. M.A. level course, delivering 1 lectures and 3 seminar on Sustainable Development Goals, School of Politics and International Studies, University of Leeds, UK.
- 2018- *Research in Technology, Media and Politics*. M.A. level course, School of Politics and International Studies, University of Leeds, UK.
- 2017- *Advanced Statistical Analysis*. B.A. level course, delivering 2 lectures and seminar on Time Series Analysis and Panel Analysis, School of Politics and International Studies, University of Leeds, UK.
- 2016- *Approaches to Analysis*. B.A. level course, School of Politics and International Studies, University of Leeds, UK.
- 2015- *Analysing Data in Politics, Development and International Relations*. B.A. level course, School of Politics and International Studies, University of Leeds, UK.
- 2015-2017 *Research Methods*. M.A. level course, delivering 3 lectures/seminars on quantitative methods, School of Politics and International Studies, University of Leeds, UK.
- 2014 *Formal Modelling in Social Sciences*. Master and PhD level course, Department of Sociology, Stockholm University, SWEDEN.
- 2009-2010 *Research seminar on political socialisation: Young people’s attitudes on the Middle-East Conflict* (in German), Master level course in cooperation with Prof. Jürgen Mansel, Bielefeld University, GERMANY.

2009-2010 *Internet as a socialisation and society-forming medium* (in German), Master level course, Bielefeld University, GERMANY.

Supervision

2018-2019 Ahmed Tarek Hammad, visiting PhD student from Catholic University of the Sacred Heart Milan ITALY.

2018- Daniel Valdenegro, PhD student, School of Politics and International Studies and School of Mathematics, University of Leeds, UK.

2017- Nicole Nisbett, White Rose DTP Collaborative Award PhD student, School of Politics and International Studies, University of Leeds, UK.

2016-2017 Molly Asher, Data Science intern, Leeds Institute for Data Analytics, University of Leeds, UK.

2015 Tarig Mohamed Ali (PhD student), Department of Mathematics, Uppsala University, SWEDEN.

Accreditation

2017- Fellow of the Higher Education Academy (HEA), FHEA

Academic Service

2018- Deputy Director for the Civil Society, Development and Democracy pathway of the White Rose Doctoral Training Partnership

2017- Member of the Q Step Executive Committee, University of Leeds

2017 Member of the Leeds Institute for Data Analytics (LIDA) Academic Advisory Board

2015 Workshop organisation and hosting *Social Change as a Complex Dynamical System*, Uppsala, SWEDEN.

2013 Conference organising committee for the *6th International Network of Analytical Sociology (INAS) Conference*, Stockholm, SWEDEN

2017- Conference programme committee member for the 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks EUSPN 2017, 9th International Conference on Social Informatics Socinfo 2017, 3rd IEEE International Conference on Data Science and Systems, 4th International Conference on Computational Social Science IC2S2 2018

2009- Various article reviews among others for *American Journal of Political Science*, *European Journal of Political Research*, *Journal of the Royal Society Interface*, *Journal of Artificial Societies and Social Simulations*, *Comparative Politics*, *Journal of Elections, Public Opinion & Parties*, *Journal of Information Technology & Politics*, *International Journal of Conflict and Violence*, *Information Polity*.

Awards and Grants

2017 [White Rose Doctoral Training Partnership Collaborative Award](#), (100% ESRC funding of a PhD candidate for three years) for the research project “Assessing the UK parliament’s online public engagement activity”, PI: Cristina Leston Bandeira, University of Leeds, my role: Co-I, Co-Supervisor, Collaborator: House of Commons, Public Information

- 2013 [SIMSAM Grant](#) (Swedish Initiative for research on micro data in the social and medical sciences), 25 Million SEK/€2,6 Million awarded by the Swedish Research Council for five years for the research project “School Segregation Dynamics”, PI: Peter Hedström, Institute for Analytical Sociology, Linköping University, my role: co-author & co-applicant
- 2011 [Hans Böckler Foundation PhD Grant](#) (€1150 p.m. + allowances) from 01/11-08/12.
- 2007 [German Academic Exchange Service \(DAAD\) Postgraduate Grant](#) (€900 p.m. + tuition fees) from 09/07-09/08.

Impact Activities

- 2017 Contributed to a report on e-petitions for the House of Commons Petitions Committee by Cristina Leston Bandeira.
- 2014-2015 Investigated mental health problems and segregation in Swedish schools using data analysis and agent-based simulation for the Sveriges Kommuner och Landsting (Swedish Association of Local Authorities and Regions), delivered report and presentation.
- 2008-2010 Investigated as a research assistant antisemitism among young immigrants in Germany for the German Federal Ministry for Family Affairs, Senior Citizens, Women and Youth, delivered report.

Skills

Software and Programming

R, Python, MATLAB, NetLogo, LaTeX, MPlus, HLM, LIMDEP, Gephi, Stata.

Languages

- German (bilingual)
- Russian (bilingual)
- English (fluent)
- French (conversant)
- Swedish (basic)