LAURENCE BRANDENBERGER

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Education

2019	PhD in Political Science, University of Bern, Department of Social Sciences,
	summa cum laude
2015	Santa Fe Institute, Complex Systems Summer School, Santa Fe, NM
2014	MA in Sociology, University of Bern, summa cum laude
2013	BA in Sociology, University of Bern

Employment

2022 -	Senior scientist at ETH Zurich, Chair of Systems Design
2018 - 2022	Post-Doc at ETH Zurich, Chair of Systems Design
2014 - 2019	PhD student at Eawag, the Water Research Institute of ETH Domain, Depart-
	ment of Environmental Social Sciences (secondary affiliation: University of
	Bern, Institute of Political Science)
	Supervisors: Philip Leifeld (University of Essex) and Karin Ingold (University
	of Bern)
2015	Visiting scholar at the Department of Politics and Public Administration, Uni-
	versity of Konstanz, Germany
2011 - 2014	Student research assistant of Prof. Ben Jann, Institute of Sociology, University
	of Bern
2011	Student research assistant of Prof. Axel Franzen and Katrin Botzen, M.A.,
	Institute of Sociology, University of Bern

Awards and Grants

Methodology (Polmeth Conference), Houston TX, July/August 2016, \$1,567	2021	ETH Board, Swiss Data Science Center; Research Project Evolv-
Methodology (Polmeth Conference), Houston TX, July/August 2016, \$1,567 2015 Grant to attend the Complex Systems Summer School at the Santa Fe Institute		ingDemocraSci. Co-PI. 263,110 CHF.
Grant to attend the Complex Systems Summer School at the Santa Fe Institute	2016	Travel Grant to attend the 33rd Annual Meeting of the Society for Political
1 ,		Methodology (Polmeth Conference), Houston TX, July/August 2016, \$1,567
Berne University Research Foundation (IMG), grant #4/15, \$4,400	2015	Grant to attend the Complex Systems Summer School at the Santa Fe Institute,
		Berne University Research Foundation (IMG), grant #4/15, \$4,400

Software Development

pdf2Data	A software-package for the Extraction of Data form PDF Documents. Under
	development in collaboration with the Swiss Data Science Center.
rem	R-package for the estimation of Relational Event Models. R package version
	1.3.1. Latest Version on CRAN; Github repository.
ghypernet	R-package for the estimation of multi-edge network regressions. R package
	version 1.1.0.

Teaching

University Courses

- Fall 2022 Data Science for Social Challenges [co-teaching with Ramona Roller, #363-1167-00L]. Master/PhD Seminar, ETH Zurich.
- Fall 2017 Social Networks [Soziale Netzwerke, #424297]. Proseminar, University of Bern.
- Fall 2016 Political Networks [Politische Netzwerke, #424297]. Proseminar, University of Bern.

Winter/Summer Schools and Workshops

- Introduction to Network Regression Models for multi-edge/weighted networks using the ghypernet-package in R. With Giona Casiraghi. Workshop taught at the European Conference on Social Networks 2019, EUSN, ETH Zurich, Zurich (CH), September 9-12, 2019.
- 2016 2018 Inferential Network Analysis (WD208). Teaching Assistant of Philip Leifeld at the ECPR Winter School in Methods & Techniques, University of Bamberg, Bamberg (DE). Annual one-week course (2016, 2017, 2018).

Thesis Supervision

- 2022 Master Thesis of Vincent Jung on ideological embeddings of Swiss MPs.
- Bachelor Thesis of Marco Wyss on the potential bias students with migration background face when applying for apprenticeships.
- Bachelor Thesis of Oscar Thees on the use of hyperlink networks in social sciences. Co-supervision with Mario Angst.

Research Project Involvement

- 2022 2024 "EvolvingDemocraSci: Advancing parliamentary data analysis: Linking issues and collaborations of indi- vidual politicians" A Swiss Data Science Center (SDSC) project (PI: Prof. Dr. Dr. Frank Schweitzer, Co-PI: **Dr. Laurence Brandenberger**), funded by the ETH Board. 263,110 CHF.
- 2019 2022 "Analyzing Co-Sponsorship Networks from 127 Years of the Swiss Federal Assembly" (Nr. 184963, PI: Prof. Dr. Dr. Frank Schweitzer, funded by the Swiss National Science Foundation (SNF). Post-Doctoral researcher.
- 2018 2020 "A research platform for data-driven democracy studies in Switzerland DemocraSci" A data science collaboration with the Swiss Data Science Center SDSC (PI: Prof. Dr. Dr. Frank Schweitzer), funded by the ETH Board. Research consultant.
- 2014 2017 "Overlapping Subsystems: Identification and Integration of Fragmented Games in Swiss Water Politics" (Nr. 149410, PI: Prof. Dr. Karin Ingold), funded by the Swiss National Science Foundation (SNF). Research assistant.

Reviewing Activities

Journals: American Political Science Review, American Sociological Review, Advances in Complex Systems, European Journal of Political Research, European Union Politics, Politics and Governance, Public Administration, Social Networks, Sociological Methods and Research, Swiss Political Science Review

Funding agencies: Schweizerischer Nationalfonds, Deutsche Forschungsgemeinschaft

Presentations

- 2022 "Towards a Parliamentary Database". Presentation at the Conference on Political Careers, University of Basel, Switzerland, June 20-22, 2022.
- "Sitting next to you: Effects of seating arrangements on parliamentary collaboration". Presentation at 15th Annual Political Networks Conference, University of Iowa, US, June 13 July 15, 2022.
- 2022 "Sitting next to you: Effects of seating arrangements on parliamentary collaborations". Presentation at the Annual Congress 2022 Swiss Political Science Association, University of Lausanne, Switzerland, February 3-4, 2022.
- 2022 "Towards a Parliamentary Database–Processing over 250,000 PDF Documents and Structuring their Content". Presentation at the Annual Congress 2022 Swiss Political Science Association, University of Lausanne, Switzerland, February 3-4, 2022.
- "Hyperlink networks between organizations the next frontier in policy network studies or a hopeless mess? Fresh evidence for an ongoing debate" Presentation at the European Conference on Social Networks 2021, EUSN, University of Naples Federico, Naples (IT), September 6-10, 2021. Presented by the co-author.
- 2021 "Networks over Time. Hierarchy Formation in Open Source Software Collaborations." Presentation at the sociology research colloquium, University of Bern, Bern (CH), March 17, 2021.
- 2020 "Measuring political polarization in the Swiss parliament." Presentation at the interdisciplinary symposium on the resilience and performance of networked systems, ETH Zurich, Zurich (CH), January 15-16, 2020.
- 2019 "Predicting Offline Political Support with Online Social Behavior." Presentation at the European Conference on Social Networks 2019, EUSN, ETH Zurich, Zurich (CH), September 9-12, 2019.
- 2019 "Predicting Offline Political Support with Online Social Behavior." Poster presentation at the 3rd European Symposium on Societal Challenges in Computational Social Science, ETH Zurich, Zurich (CH), September 2-4, 2019.
- 2019 "Predicting Offline Political Support with Online Social Behavior." Presentation at the 12th Annual Political Networks Conference, Duke University, Durham NC (US), May 29 June 1, 2019.
- 2019 "Disentangling Selection from Influence Effects in Social Networks Using Relational Event Models." Poster presentation at the 12th Annual Political Networks Conference, Duke University, Durham NC (US), May 29 June 1, 2019.
- 2019 "Predicting Offline Political Support with Online Social Behavior." Presentation at the Network Science Society: NetSci 2019 conference, Complexity Center, Burlington VT (US), May 29, 2019.

- 2019 "Quantifying endogenous network statistics in network ensembles." Presentation at the NetSci2019 Satellite Workshop Statistical Inference for Network Models, Complexity Center, Burlington VT (US), May 27, 2019.
- 2019 "'Good' and 'Bad' Instruments: Evaluating Actors' Policy Preferences in Swiss Flood Risk Management." Presentation at the Annual Convention of the Swiss Political Science Association, ETH Zurich, February 14-16, 2019. Presented by the co-author.
- 2018 "Using an Automated Approach for the Identification of Coalitions in Policy Processes". Presentation at the annual conference of the Swiss Political Science Association, University of Geneva, Geneva (CH), February 5-6, 2018.
- 2017 "Predicting relational events". Presentation at the Third European Conference on Social Networks (EUSN), Johannes Gutenberg-University, Mainz (DE), September 26-29, 2017.
- 2017 "Information exchange in interwoven policy networks". Presentation at the Annual Convention of the Swiss Political Science Association, University of St. Gallen, St. Gallen (CH), January 12, 2017.
- 2017 "Predicting relational events". Presentation at the Annual Convention of the Swiss Political Science Association, University of St. Gallen, St. Gallen (CH), January 12, 2017
- 2016 "Goodness-of-fit measures for temporal event network models". Poster presentation at the 33rd annual meeting of the Society for Political Methodology, Rice University, Houston (US), July 23, 2016.
- 2016 "Boundary Spanning across Adjacent Policy Subsystems: ActorIssue Relations in Swiss Water Politics". Presentation at the Annual Convention of the Swiss Political Science Association, University of Basel, Basel (CH), January 21 2016.
- 2015 "National Parliamentary Coordination after Lisbon: A Network Approach". Presentation at the PhD-colloquium for Public Policy and Regulation, Institute of Political Science, University of Bern, Bern (CH), October 20 2015.
- 2015 "Coordination patterns in policy debates". Presentation at the Brown Bag Seminar, Department of Politics and Public Administration, University of Konstanz, Germany, May 22 2015.
- 2014 "Studying behavioral mechanisms in the policy process and political discourse". Presentation at the Environmental Social Sciences Seminar, Department of Environmental Social Sciences, Eawag (Swiss Federal Institute of Aquatic Science and Technology), Dübendorf (CH), November 14 2014.
- 2014 "Studying behavioral mechanisms in the policy process and political discourse". Presentation at the Political Science Colloquium, Institute of Political Science, University of Bern, Bern (CH), October 13 2014.
- 2014 "Overlapping Subsystems. Identification and Integration of Fragmented Games in Swiss Water Politics. Project Overview". Presentation at the Seminar on Transboundary Water Management, University of Bern and University of Geneva, Cully (CH), October 10 2014.

Last updated: January 2023