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Ramona Roller

Education

- 01/2018 PhD candidate in data-driven modeling of socio-historical systems,
- 09/2022 Thesis: Social differentiation during the European Reformation: Statistical analyses of letter correspondence networks,

Chair of Systems Design, ETH Zurich, Switzerland,

Supervisor: Prof. Frank Schweitzer.

09/2018 Reproducibility in Computational Science Summer School,

EPFL Lausanne, Magliaso, Switzerland.

- 09/2015 M.Sc. Computational Science,
- 12/2017 University of Amsterdam, Netherlands.
- 06/2017 Complex Systems Summer School,
- 07/2017 Santa Fe Institute, NM, USA.
- 10/2011 B.Sc. Psychology with Cognitive Science,
- 07/2014 University of Sussex, UK.

Employment

10/2022 - PostDoc in computational social science,

Chair of Systems Design, ETH Zurich, Switzerland,

Prof. Frank Schweizter.

- 11/2014 Intern at Netherlands Organisation for Applied Scientific Research (TNO),
- 06/2015 Soesterberg, Netherlands.
- 06/2013 Junior research associate at Department of Informatics,
- 06/2014 University of Sussex, UK.

Publications

2023 Roller, R. 2023: Theory-Driven Statistics for the Digital Humanities: Presenting Pitfalls and a Practical Guide by the Example of the Reformation.

Journal of Cultural Analytics. Forthcoming.

2023 Roller, R. 2023: Modell.,

Zeitschrift für digitale Geisteswissenschaften. Forthcoming.

2023 Roller, R. 2023: Operationalising territories in 16th century Europe: a critical reflection on spatial concepts.,

Digital Humanities Research. Under review,

Earlier version: Vectorizing maps to generate geo-spatial data on territories of the Holy Roman Empire., *socarxiv.* doi=10.31235/osf.io/y9v68.

2022 Roller, R., Schweitzer, F. and Strohm, C. 2021: The role of neighbourhood relations in confessionalisation.

socarxiv. 10.31235/osf.io/67vgr.

2021 Roller, R. and Schweitzer F., 2021: A new theory of social roles in networks., socarxiv. doi=10.31235/osf.io/xkafb.

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07/2022	Reuchlins Briefwechsel: Statistische Analysen für Korrespondenznetzwerke
	Internationaler Reuchlin Kongress,
	Pforzheim, Germany.

- 02/2022 **Statistische Analysen für Briefkorrespondenznetzwerke und ihren geografischen Raum**, *Möglichkeiten computergestützter Auswertung von historischen Korrespondenzen*, Heidelberg, Germany.
- 01/2022 Nachbarschaftseffekte während der europäischen Reformation, Oberseminar Digital Humanities, Passau, Germany (online).
- 09/2021 Polarization in the 16th century: Ideologial groups during the Reformation, European Conference on Social Network Analysis (EUSN) , Naples, Italy (online).
- 07/2021 Role detection in networks: Social differentiation during the Reformation, Historical Network Research conference (HNR), Luxembourg, Luxembourg (online).
- 04/2021 Modeling Time in Interactions: Temporal paths in a 16th century network, Historical Network Research lunch lecture (HNR), online.
- 03/2021 Räumliche Aspekte der Konfessionalisierung: Vektorisierte Territorien des HRR erstellen und nutzen,
 Geography meets Digital Humanities: Neuere Ansätze raumbezogener Modellierung,
- 10/2020 Warum wurde Luther protestantisch? Erklärungsnarrative mit statistischen Modellen entwickeln und zur Theoriebildung nutzen,

 Theorytellings Workshop der DHd AG Theorie,
 Leipzig, Germany.
- 09/2020 A letter network to test theories, CUDAN Satellite at NetSci, Rome, Italy (online).

Erlangen, Germany (online).

03/2020 Wie steuert geografische Distanz das Briefkorrespondenznetzwerk der Reformatoren? Eine Netzwerkanalyse,

Digital Humanities im deutschsprachigen Raum Konferenz (DHd), Paderborn, Germany.

09/2019 Statistical inference for letter network of Reformation, European Conference on Social Network Analysis (EUSN), Zurich, Switzerland.

07/2019 Network regression reveals factors driving the letter correspondence of 16th century reformers,

International Conference on Computational Social Science (IC^2S^2), Amsterdam, Netherlands.

Research Visits

01/2023 SCOOP Project: Sustainable Cooperation,

 $\textit{Talk: Role detection in communication networks: About specialising protestants and deceived \& deceiving employees \,,}$

Groningen, Netherlands.

06/2019 Austrian Centre for Digital Humanities,

Talk: A workflow for automated vectorisation of raster maps, Vienna, Austria.

01/2019 Heidelberg Academy of Sciences and Humanities,

Talk: Das Briefkorrespondenznetzwerk der Reformatoren, Heidelberg, Germany.

Teaching

University courses

09 - 12/2022 Data Science for Social Challenges,

Co-organiser and co-lecturer of a 3 ECTs Master course,

ETH Zurich, Switzerland.

08/2021 Digital Humanities Netzwerke,

Invited speaker for 2 hour slot on 'Modeling time in historical networks',

 $Heinrich-Heine-Universit \"{a}t\ D\"{u}sseldorf,\ Germany.$

Thesis supervision

03/2019 Master thesis of Leonie Bauer on the prediction of needed help in disaster regions from Instagram posts,

ETH Zurich, Switzerland.

Community activities

Organisation of Scientific Events

01/2021 - Workshop on "Möglichkeiten computergestützter Auswertung von historischen Korre-

02/2022 spondenzen",

Co-organiser and speaker,

9 - 11 February 2022,

Heidelberg, Germany.

06/2018 Big Data in the Field Weekend Seminar,

Co-organiser and praticipant,

German Academic Foundation,

Berlin, Germany.

Reviewing acitivities

2021 - Conference on Computational Humanities Research (CHR).

2021 - Conference of the Digital Humanities in the German-speaking area,

Jahrestagung des Verbands "Digital Humanities im deutschsprachigen Raum" (DHd).

Editorial activities

2022 Advances in Complex Systems journal,

Special Issue on "Cultural Complexity",

Co-guest editor.

Memberships

2020 - Digital Humanities in the German-speaking area,

Verband "Digital Humanities im deutschsprachigen Raum" (DHd).

2020 - Working group "Theory" of the DHd,

Organisor of a bi-monthly paper-cirlce.

Awards

09/2020 Student grant for NetSci conference,

Reduced conference fee from 180€ to 50€.

01/2020 Travel grant for DHd conference (Digital Humanities im deutschsprachigen Raum), 400€.

02/2012 - Member of German National Academic Foundation.

12/2017

07/2014 Stuart Sutherland Prize,

For an outstanding undergraduate dissertation in psychology at the University of Sussex.