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Ramona Roller

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- 01/2018 **Doctor of Sciences ETH Zurich**.
- 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

05/2023 Roller, R. 2023: Operationalising territories in 16th century Europe: a critical reflection on spatial concepts.

Digital Humanities Research. Forthcoming,

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

- 05/2023 Roller, R. 2023: Modell.,
 - Zeitschrift für digitale Geisteswissenschaften, Working paper 2, doi=10.17175/wp_2023_009.
- 01/2023 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*, vol 7, no. 4.
- 12/2022 Schweitzer, F., Andres, G., Casiraghi, G., Gote, C., Roller, R., Scholtes, I., Vaccario G. and Zingg, C. 2022: Modeling social resilience: Questions, answers, open problems., *Advances in Complex Systems*, vol 5, no. 8.

Preprints

05/2023 Roller, R: Tracing the Footsteps of Ideas: Time-respecting Paths Reveal Key Reformers and Communication Pathways in Protestant Letter Networks.,

socarxiv. 10.31235/osf.io/cfqry.

04/2023 Roller, R., Schweitzer, F. and Strohm, C. 2021: The role of neighbourhood relations in confessionalisation.

socarxiv. 10.31235/osf.io/67vgr.

05/2021 Roller, R. and Schweitzer F., 2021: A new theory of social roles in networks., socarxiv. doi=10.31235/osf.io/xkafb.

Talks

02/2023 Netzwerkanalyse zur Komposition und Evolution innerprotestantischer Gruppen im 16. Jahrhundert,

CAIDAS Workshop,

Würzburg, Germany.

01/2023 Role detection in communication networks: About specialising protestants and deceived & deceiving employees,

Research visit at Department of Sociology/SCOOP Project,

Groningen, Netherlands.

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, Erlangen, Germany (online).

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).

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 (IC²S²),

Amsterdam, Netherlands.

Research Visits

01/2023 SCOOP Project: Sustainable Cooperation,

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

02 - 06/2023 Introductions to Digital Humanities,

Invited speaker for 2 hour lecture on 'Network analysis in the DH',

University of Bern, Switzerland.

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 lecture on 'Modeling time in historical networks',

Heinrich-Heine-Universität Düsseldorf, Germany.

Supervision

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

ETH Zurich, Switzerland.

09/2018 Semester project of Long Him Cheung on modeling emotions of users in a product reviews communities,

ETH Zurich, Switzerland.

Community activities

Organisation of Scientific Events

01/2021 - Workshop on 'Möglichkeiten computergestützter Auswertung von historischen Korrespon-

02/2022 denzen',

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

2023 - Perspectives on Psychological Science journal.

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).

2020 - Advances in Complex Systems journal.

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, Contributor to special issue on glossary of DH terms.

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.

Languages

German: native; English: fluent; Dutch: intermediate; French: basic; Italian: basic