



# Ramona Roller

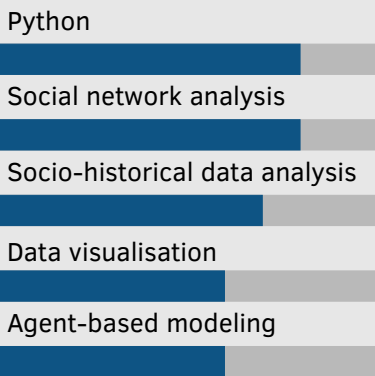
Quantitative social scientist

- 15 December 1991
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## About me

Social scientist with a strong quantitative background. Fascinated by complex systems and their mathematical descriptions. Currently working on reconstruction methods for historical letter correspondence networks. Future aim: Develop spatio-temporal null models for historical letter correspondence networks.

## Skill



(\*)[The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).]

## Education

- since 01/2018 Ph.D. candidate in data-driven modeling of social systems ETH Zurich, CH
  - *Develop quantitative statistical methods to analyse socio-historical data.*
  - *Construct and visualise temporal network models.*
- 09/2018 Participant at EPFL's Reproducibility in Computational Science Summer School Magliaso, CH
  - *Acquired profound skills in writing reproducible research papers and data management. Specific tools include Git, R Shiny, and Renga.*
- 09/2015 - 12/2017 M.Sc. Computational Science University of Amsterdam, NL
  - *Thesis: Optimising Resource Allocation in Socio-economic Systems with the Minority Game: A Case Study on Electric Cars in Amsterdam.*
- 06/2017 - 07/2017 Participant at SFI's Complex Systems Summer School Santa Fe Institute, USA
  - *Passed highly competitive world-wide application process.*
  - *Deepened numerical and computational methods for the analysis of complex systems.*
- 10/2011 - 07/2014 B.Sc. Psychology with Cognitive Science University of Sussex, UK
  - *Thesis: Differences between conscious and unconscious learning of social rules.*

## Research and Work Experience

- 11/2014 - 06/2015 Intern at Netherlands Organisation for Applied Scientific Research (TNO) Soesterberg, NL
  - *Developed a Linked Data model to cope with power cuts caused by flooding.*
  - *Applied qGIS to visualise power stations and water levels.*
- 06/2013 - 06/2014 Junior research associate at Department of Informatics University of Sussex, UK
  - *Developed a novel method to quantify and visualise cognitive chunks based on the sequences of participants' drawings of electrical circuit diagrams.*

## Conference attendances and research visits

- 09/2019 European Conference on Social Network Analysis (EUSN) Zurich, CH
  - *Talk: 'Statistical inference for letter network of Reformation'.*
  - *Access talk at [https://www.sg.ethz.ch/media/talk\\_slides/EUSN2019.pdf](https://www.sg.ethz.ch/media/talk_slides/EUSN2019.pdf)*
- 07/2019 International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>) Amsterdam, NL
  - *Talk: 'Network regression reveals factors driving the letter correspondence of 16th century reformers'.*
  - *Access talk at [https://www.sg.ethz.ch/media/talk\\_slides/Amsterdam2019.pdf](https://www.sg.ethz.ch/media/talk_slides/Amsterdam2019.pdf)*
- 06/2019 Research visit at Austrian Centre for Digital Humanities Vienna, AU
  - *Enlarged skills on vectorisation of raster maps and management of spatial data.*
  - *Talk: 'A workflow for automated vectorisation of raster maps'.*
  - *Access talk at [https://www.sg.ethz.ch/media/talk\\_slides/Vienna2019.pdf](https://www.sg.ethz.ch/media/talk_slides/Vienna2019.pdf)*

## Organisation of scientific events

since 07/2019

Co-organiser of the workshop 'Opportunities in computerised analyses of historical letter correspondences' Heidelberg, GER

- *Teamed-up with project 'Theologenbriefwechsel im Südwesten des Reichs in der Frühen Neuzeit (1550-1620) led by Prof. Strohm in Heidelberg.*

- *Organised talks, discussion groups and accomodations for 30 participants.*

- *Speakers include international researchers from the humanities, computer- and data sciences.*

- *Planned date: September 2020*

06/2018

Co-organiser and participant at Big Data in the Field Weekend Seminar Berlin, GER

- *Organised talks, workshops, discussion rounds, and accomodation for 50 participants and 6 speakers.*

- *Speakers included German Data Science professors and representatives of German companies that apply Big Data-based technologies.*

## Awards

01/2020

Travel grant for DHd conference (Digital Humanities im deutschsprachigen Raum)

02/2012 - 12/2017

Member of German National Academic Foundation

07/2014

Stuart Sutherland Prize for an outstanding undergraduate dissertation in psychology at the University of Sussex