


# MARION HOFFMAN Ph.D.

## Education


- Mar 2017**  
- Sep 2021
- ETH ZÜRICH**  
*Zürich, SWITZERLAND*
- Ph.D. in Science, Department of Humanities, Social, and Political Sciences.  
Main supervisor: Prof. Christoph Stadtfeld  
Co-supervisor: Prof. Tom A. B. Snijders
- Sep 2015**  
- Sep 2016
- PARIS-SACLAY UNIVERSITY**  
*Paris, FRANCE*
- M.Sc. Degree in Network Industries and Digital Economics.  
Awarded with Highest Honors.
- Sep 2012**  
- Sep 2016
- SUPELEC (now CentraleSupélec)**  
*Gif-sur-Yvette, FRANCE*
- "Grande Ecole d'ingénieur": M.Sc. Degree in Science and Engineering.  
Major in Computer Science.  
Awarded with Highest Honors.
- Sep 2010**  
- Aug 2012
- LYCEE PIERRE DE FERMAT**  
*Toulouse, FRANCE*
- French classes préparatoires (BSc level).  
Major in Math and Physics, minor in Computer Science.


## Contact

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 **Links**  
twitter.com/marion\_hof  
github.com/marion-hoffman

 **Languages**  
French (native C2)  
English (fluent C2)  
Spanish (intermediary B1)  
Dutch and Italian (beginner A2)

## Academic Positions

- Dec 2022**  
- now
- POSTDOC at the Department of Sociology, University of Zürich**  
*Zürich, SWITZERLAND*
- Oct 2021**  
- now
- FELLOW at the Institute for Advanced Study in Toulouse, Toulouse School of Economics**  
*Toulouse, FRANCE*
- Mar 2017**  
- Sep 2021
- Ph.D. CANDIDATE at the Chair of Social Networks, ETH Zürich**  
*Zürich, SWITZERLAND*
- Apr 2016**  
- Feb 2017
- RESEARCH ASSISTANT at the Chair of Cognitive Science, ETH Zürich**  
*Zürich, SWITZERLAND*

## Industry Positions

- Jan 2015**  
- Jul 2015
- R&D INTERN at the Geoscience Research Center of Total E&P UK**  
*Aberdeen, UNITED KINGDOM*
- Jul 2014**  
- Jan 2015
- SOFTWARE DEVELOPEMENT INTERN at Météo France International**  
*Toulouse, FRANCE*

## Additional academic experience

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- Jul 2023 Teacher, BIGSSS-CSS Summer School on Democratic Debate at Constructor University, Germany
- May 2023 Research visit, University of Salerno, Italy
- Mar 2022 Research visit, Geneva Graduate Institute, Switzerland
- Mar 2020 Research visit, University of Oxford, United Kingdom
- Oct 2019 - Feb 2020 Research visit, University of Groningen, The Netherlands
- Sep 2018 Participant, V Mediterranean School of Complex Networks in Salina, Italy
- Feb 2017 Participant, 9th Winter School on Longitudinal Social Network Analysis in Norrköping, Sweden

## Services to the community

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- SOFTWARE** Creator and contributor of the **R package "ERPM"** for the analysis of partitions of individuals, since 2019 (<https://github.com/marion-hoffman/ERPM>)  
Contributor to the **R package "Goldfish"** for the analysis of relational event data, since 2016 (<https://github.com/snlab-ch/goldfish>)
- EVENTS** Organizer of the **Economics and Biology workshop "Inequality in networks"**, IAST, June 2024  
Organizer of the **IAST General Seminar**, IAST, academic year 2023  
Member of the organizing committee of the event **Friends of IAST**, IAST, June 2022
- CONFERENCES** **Session organizer**, ARS'23 Ninth International Workshop on Social Network Analysis, Naples, 2023  
**Program committee member**, 3<sup>rd</sup> French Regional Conference on Complex Systems, Le Havre, 2023  
**Program committee member**, 7<sup>th</sup> International Conference on Computational Social Science, Zürich, 2021
- JOURNALS** **Reviewer** for the journals: *Social Networks*, *Network Science*, *Plos One*, *Plos Computational Biology*, and *EPJ Data Science*.

## Teaching

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- Spring 2024 **LECTURER** for the course "Graph Analysis", Toulouse School of Economics  
*Toulouse, FRANCE*
- May 2023 **GUEST LECTURER** for the course "Social Network Analysis", University of Salerno  
*Salerno, ITALY*
- Spring 2023 **TEACHING ASSISTANT** for the course "Graph Analysis", Toulouse School of Economics  
*Toulouse, FRANCE*
- Mar 2022 **GUEST LECTURER** for the course "Social network theories and methods", Geneva Graduate Institute  
*Geneva, SWITZERLAND*
- Fall 2020 **TEACHING ASSISTANT** for the course "Network Modeling", ETH Zürich  
*Zürich, SWITZERLAND*

## Additional teaching experiences

### Jun 2024 CO-TEACHER of a workshop for the R package "RSiena"

"The analysis of longitudinal social network data using RSiena", in June 2024, at the 44th Sunbelt Conference, Edinburgh, United Kingdom

### Jun 2024 TEACHER for the BIGSSS-CSS Summer School

Bremen, GERMANY

Lecture on "Introduction to relational event models" to summer school participants.

### Nov 2022 & Nov 2023 SUPERVISOR of student group projects, University of Applied Sciences Utrecht

Utrecht, THE NETHERLANDS

### 2017 - now CO-TEACHER of workshops for the R package "Goldfish"

- "Goldfish: Estimating Network Event Models", on 2022, Sep 12 at the 6th EUSN, Greenwich, UK
- "Goldfish: Estimating Network Event Models", on 2019, Sep 12, at the 4th EUSN, Zürich, Switzerland
- "Relational Events: Estimating Dynamic Network Actor Models (DyNAMs) with the Goldfish Software", on 2018, Jun 27, at the XXXVIII Sunbelt Conference, Utrecht, the Netherlands
- "Relational Events: Estimating Dynamic Network Actor (DyNAM) Models with the Goldfish Software", on 2017, Sep 12, at the 3rd EUSN, Mainz, Germany

## Publications

- **Hoffman M.** & Chabot T. (2023), The Role of Selection in Socioeconomic Homophily: Evidence from an Adolescent Summer Camp. *Social Networks* 74, 259-274.
- **Hoffman, M.**, Block P., Snijders T.A.B. (2023). Modeling partitions of individuals. *Sociological Methodology* 53(1), 1-41.
- Elmer, T., Mepham, K., **Hoffman M.**, Boda, Z., Raabe, I. J., Vörös, A., & Stadtfeld, C. (2022). The Swiss Student Life Study: Codebook. *PsyArXiv*.
- **Hoffman, M.** (2021). Studying face-to-face interactions in groups: Models and applications (Doctoral dissertation, ETH Zürich).
- Vörös, A., Boda, Z., Elmer, T., **Hoffman, M.**, Mepham, K., Raabe, I. J., & Stadtfeld, C. (2021). The Swiss StudentLife Study: Investigating the emergence of an undergraduate community through dynamic, multidimensional social network data. *Social Networks*, 65, 71-84.
- Block, P., **Hoffman, M.**, Raabe, I. J., Dowd, J. B., Rahal, C., Kashyap, R., & Mills, M. C. (2020). Social network-based distancing strategies to flatten the COVID-19 curve in a post-lockdown world. *Nature Human Behaviour* 4(6), 588-596.
- **Hoffman, M.**, Block, P., Elmer, T., & Stadtfeld, C. (2020). A model for the dynamics of face-to-face interactions in social groups. *Network Science* 8(S1), 1-22.
- Graser, K., Wang, Y., **Hoffman, M.**, Bonanomi, M. M., Kohler, M., & Hall, D. M. (2019). Social Network Analysis of DFAB HOUSE: A Demonstrator of Digital Fabrication in Construction. *Engineering Project Organization Conference*, P. S. Chinowsky and J. J. Taylor, eds., Vail, CO, 1–21.

## Awards

- **Project grant** awarded by the IAST, together with Marijn Keijzer, Maria Kleshnina, and Péter Bayer (approx. 17K€).
- **Best presentation award** at the International Conference on Complex Networks and Their Applications, December 2018 in Cambridge, UK.
- **Best Student project** at the the Mediterranean School of Complex Network, 2018 in Salina, Italy.
- **Master thesis grant** awarded by the Zeno Karl Schindler Foundation (approx. 10KCHF).

## Invited talks

- Satellite Symposium “Statistical Inference for Network Models” for the **NetSci 2023 Conference** in Vienna, Austria (2023 July 11)
- Statistics seminar, **University of Kent**, UK (2023 Mar 16).
- Séminaire Savoir, réseaux, et médiation, **Université Toulouse Jean Jaurès**, France (2023 Jan 27).
- Mathematics and Statistics seminar, **Toulouse School of Economics**, France (2022 Dec 8).
- Symposium on Social network and demographic models, CEFE-CNRS, **University of Montpellier** (2022 Oct 10-11)
- Mitchell Center Seminar, **University of Manchester**, UK (2022 Feb 23).
- Seminar of the Leverhulme Centre for Demographic Science, **University of Oxford**, UK (2020 Mar 11).
- Sociology Colloquium, **University of Groningen**, The Netherlands (2019 Nov 27).

## Conference presentations

- **Hoffman M.**, Lazega E. (2024, Apr 15-18). *From movement comes stability: Modeling the mechanisms driving the co-constitution of groups and individuals at the Commercial Court of Paris*. Duality Workshop, ETH Zürich, Switzerland.
- **Hoffman M.**, Bayer P., Keijzer M., Kleshnina M., Amati V. (2023, May 2-3). *Specifying attribute effects in statistical models for groups – A game theoretical approach*. ARS'23 Ninth International Workshop on Social Network Analysis, Naples, Italy.
- **Hoffman M.** (2022, Sep 12-16). *Specification of attribute effects in statistical models for social groups*. 6<sup>th</sup> European Conference on Social Networks, Greenwich, UK.
- **Hoffman M.** & Chabot T. (2021, Sep 7-10). *Dynamics of group-based meetings amongst teenagers*. RC33 conference, online.
- **Hoffman M.** & Chabot T. (2021, Sep 6-10). *The Role of Preference-Based Selection in Socioeconomic Homophily: Evidence from a Three-Week Summer Camp*. 6<sup>th</sup> European Conference on Social Networks, online.
- Block, P., **Hoffman, M.**, Raabe, I. J., Dowd, J. B., Rahal, C., Kashyap, R., & Mills, M. C. (2020, Jul 10). *Social network-based distancing strategies to flatten the COVID-19 curve in a post-lockdown world*. Costnet Conference on Covid-19, Munich, Germany.
- **Hoffman M.**, Block P., Snijders T.A.B. (2020, Jul 13-17). *From dyads to groups: A partition model for non-overlapping groups*. XXXVIIIV Sunbelt Conference, Paris, France.
- **Hoffman M.**, Block P., Snijders T.A.B. (2019, Sep 9-12). *A partition model for membership of non-overlapping groups*. 4<sup>th</sup> European Conference on Social Networks, Zürich, Switzerland.
- **Hoffman M.**, Block P., Elmer T. & Stadtfeld C. (2018, Dec 11-13). *DyNAM-i: a statistical model for the analysis of face-to-face interactions*. 7th International Conference on Complex Networks and Their Applications, Cambridge, UK.
- **Hoffman M.**, Block P., Elmer T. & Stadtfeld C. (2018, Jun 26 - Jul 1). *A statistical model for the analysis of face-to-face interactions*. XXXVIII Sunbelt Conference, Utrecht, the Netherlands.