

# Marijn Alexis Keijzer, PhD

Research Fellow  
Institute for Advanced Study in Toulouse

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## 1. Academic positions

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<b>Research fellow</b>	<b>2021 – present</b>
Institute for Advanced Study in Toulouse University of Toulouse 1 Capitole, France	
<b>Postdoctoral researcher</b>	<b>2021</b>
Chair of Sociology and Computational Social Science Karlsruhe Institute of Technology, Germany	

## 2. Education

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<b>PhD in Sociology</b>	<b>2016 – 2021</b>
<i>Cum laude</i> University of Groningen & Interuniversity Center for Social Science Theory and Methodology (ICS)	
<b>MSc in Sociology</b>	<b>2014 – 2016</b>
<i>Cum laude</i> Utrecht University & Interuniversity Center for Social Science Theory and Methodology (ICS)	
<b>BSc in Sociology</b>	<b>2009 – 2013</b>
Utrecht University	
<b>Summer and winter schools</b>	
2019 <i>Winter School on Longitudinal Social Network Analysis</i> . University of Groningen	
2017 <i>Complexity science winter school</i> . Complexity Institute at Nanyang Technological University	
2017 <i>Computational social science summer school</i> . Gesis Leibniz-Institut für Sozialwissenschaften	
2015 <i>ICPSR Summer Program in Quantitative Methods</i> . Courses on game theory, Bayesian statistics, R, and experimental research. University of Michigan	

## 3. Teaching

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<b>‘Co-design’ project</b>	<b>2022</b>
IAST & HU University for Applied Sciences Utrecht	
<b>Co-lecturer ‘Sozialforschung: Wann und warum entsteht Meinungspolarisierung?’</b>	<b>2021</b>
Karlsruhe Institute of Technology	
<b>Lecturer and coordinator ‘Opinion Dynamics on the Internet’ (ODIN)</b>	<b>2019 – 2021</b>
University of Groningen	
<b>Teaching Assistant ‘De Gemeente en Haar Burgers’</b>	<b>2017 – 2019</b>
University of Groningen	

### 3.1. Supervision

<b>Supervisor 'Collaborative Data Projects'</b> University of Groningen	2019 – 2021
<b>Supervision of various internships</b> University of Groningen	2018 – 2020
<b>Supervisor bachelor theses</b> University of Groningen	2017 – 2019

### 3.2. Guest lectures

2022	Social influence modeling in Python using defSim. <i>BIGSSS Summer School in Computational Social Science on Social Cohesion</i> . <a href="#">[link]</a>
2021	Digital trace data. <i>Opinion Dynamics on the INternet</i> , Minor program Data Wise: Data Science for Society, University of Groningen.
2020	Diffusion of information and social influence in networks. <i>Theorizing Change</i> , Research master program in Behavioural and Social Sciences, University of Groningen. Co-lectured with Jacob Dijkstra <a href="#">[link]</a>

## 4. Experience

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<b>Visiting Associate</b> University of Pennsylvania	2020
<b>Research Assistant</b> Utrecht University	2011 – 2016
<b>Intern</b> Netherlands Institute for Social Research	2015
<b>Intern</b> Trajectum Knowledge Center	2013 – 2014

## 5. Publications

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### 5.1. Peer-reviewed

Forthcoming	Terzopoulou, Keijzer, Gogulapati & Heitzig. The Rule–Tool–User Nexus in digital collective decisions. <i>AAMAS '23</i>
2022	Keijzer & Corten. Socioeconomic status, reputation, and interpersonal trust in peer-to-peer markets: Evidence from an online experiment. <i>Rationality &amp; Society</i> [doi: 10.1177/10434631221131771]
2022	Keijzer & Mäs. The complex link between filter bubbles and opinion polarization. <i>Data Science</i> [doi: 10.3233/DS-220054]
2021	Keijzer & Mephram. Een pandemie van polarisatie? [A polarisation pandemic?]. <i>Mens &amp; Maatschappij</i> [doi: 10.5117/MEM2021.2.003.KEIJ]
2021	Keijzer & Mäs. The strength of weak bots. <i>Online Social Networks and Media</i> [doi: 10.1016/j.osnem.2020.100106]
2018	Keijzer, Mäs & Flache. Communication in online social networks fosters cultural isolation. <i>Complexity</i> [doi: 10.1155/2018/9502872]

## 5.2. Book chapters

- Forthcoming Flache, Keijzer & Mäs. Agent-based models and networks. In Yasseri (Ed.). *Handbook of Computational Social Science: Volume I*
- 2022 Flache, Mäs & Keijzer. Computational approaches in rigorous sociology: agent-based computational sociology and computational social science. In Gërkhani, De Graaf & Raub (Ed.). *Handbook of Rigorous Theoretical and Empirical Sociology* [doi: 10.4337/9781789909432.00011]

## 5.3. Other publications

- 2022 Keijzer. If you want to be cited, calibrate your agent-based model: Reply to Chattoe-Brown. *Review of Artificial Societies and Social Simulation*. [link]
- 2021 De Matos Fernandes & Keijzer. No one can predict the future: More than a semantic dispute. *Review of Artificial Societies and Social Simulation*. [link]

## 5.4. Invited talks

- 2023/03/16 The strength of weak bots. Presented in the *International roundtable on Computational Social Science* at the Institute for Analytical Sociology, LIU (Norrköping, Sweden)
- 2022/12/15 The complex link between filter bubbles and opinion polarization. Presented in *IRIT external seminar* at University of Toulouse 1 Capitole (Toulouse, France)

## 5.5. Conference presentations

- 2022/09/15 The strength of weak bots. Presented at *ESSA Social Simulation Conference* (Milan, Italy)
- 2021/09/17 Micro-foundations of polarization in online social media. Presented at *Annual Conference for Experimental Sociology* (Ascona, Switzerland)
- 2021/03/16 Micro-foundations of polarization in online social media: A model In the lab fed back into the model. Presented at *ESSA's SocSimFesT 2021* (online)
- 2019/09/01 Validating models of opinion polarization on the micro-level. Presented at the *European Symposium Series on Societal Challenges in Computational Social Science, 2019: Polarization and Radicalization* (Zürich, Switzerland)
- 2019/05/02 Designing social influence experiments. Presented at *Sixth International Meeting on Experimental and Behavioral Social Sciences* (Utrecht, The Netherlands)
- 2018/08/13 Communication in online social networks fosters cultural isolation. Presented at *2018 Annual Meeting of the American Sociological Association* (Philadelphia PA, USA)
- 2018/06/26 Communication in online social networks fosters cultural isolation.. Presented at *XXXVIII Sunbelt Conference 2018* (Utrecht, The Netherlands)
- 2017/07/07 Isolation in online social networks. Presented at the *Interdisciplinary Workshop on Opinion Dynamics and Collective Decision* (Bremen, Germany)
- 2017/06/09 Cultural heterogeneity under one-to-many communication in online social networks. Presented at the *9th International Network for Analytical Sociology conference* (Oslo, Norway)
- 2016/06/04 In status we trust: A vignette experiment on socioeconomic status and reputation explaining interpersonal trust in peer-to-peer markets. Presented at the *8th International Network for Analytical Sociology conference* (Utrecht, the Netherlands)

## 5.6. Software

2019 Laukemper, Keijzer & Bakker. defSim: The discrete event framework for social influence models. [GitHub: [github.com/defSim/defSim](https://github.com/defSim/defSim)]

## 6. Media coverage

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- 2023/02/20 IAST Magazine. Is social media tearing us apart? [link]
- 2023 SIRE. Insights from my work have inspired a national campaign warning for the effects of polarization in the Netherlands under the slogan 'Verlies elkaar niet: Als polarisatie dichtbij komt' (*Do not lose each other: When polarization comes closer*) [link]
- 2022/11/04 Argos Medialogica. 'Neemt polarisatie toe door filterbubbels op sociale media?' (*Does polarization increase because of filter bubbles on social media?*) [link]
- 2022/02/04 NEMO Kennislink. 'Zorgen sociale media voor meer polarisatie?' (*Do social media cause more polarization?*) [link]
- 2022/01/19 Radio 1. Interview about my dissertation in Radio 1 Journaal [link]
- 2021/09/14 PNAS News Feature. 'Modeling the power of polarization' [doi: 10.1073/pnas.2114484118]
- 2020/09/26 Radio 2. 'Zorgt social media voor meer polarisatie?' (*Do social media cause more polarization?*) [link]
- 2019/07/05 SciencePOD. 'The (anti)social network – How online communication may increase cultural isolation' [link]
- 2019/03/28 NOS. 'Strengere regels Facebook tegen extreem-rechts toegejuicht, maar ook twijfel' (*Facebook's stricter rules against the far right welcomed, but there are also doubts*) [link]
- 2019/02/16 Reformatorisch Dagblad. 'Besef dat YouTube je naar het extreme kan leiden' (*Realize that YouTube can lead you to the extreme*) [link]
- 2018 Matjeu Witte. 'Digitale Kruimels' (*digital breadcrumbs*), short film [link]
- 2016/12/23 NOS. 'Zo bepalen algoritmes jouw wereldbeeld' (*This is how algorithms determine your world view*) [link]

## 7. Competitive grants and scholarships

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- 2022 **Multidisciplinary grant** for the project 'Understanding the formation and success of groups through game theory and network science' as a co-PI with Péter Bayer, Marion Hoffman & Maria Kleshnina. Awarded by the Institute for Advanced Study in Toulouse [total: €16,750]
- 2017 **Travel fellowship** for Complexity science winter school. Awarded by the Complexity Institute at Nanyang Technological University (Singapore)
- 2017 **Scholarship** for Computational social science summer school (Sardinia, Italy). Granted by the Gesis Leibnitz-Institut für Sozialwissenschaften

## 8. Service to profession

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### 8.1. Reviewing

I have reviewed manuscripts for Nature Human Behaviour, Rationality & Society, the Journal of Artificial Societies and Social Simulation, Online Social Networks and Media, Frontiers in Physics, First Monday, Applied

Network Science, PLOS Sustainability and Transformation, Quality & Quantity, the Conference on Autonomous Agents and Multiagent Systems, Artificial Life, the Journal of Cleaner Production, and Data Science.

## 8.2. Organization of scientific events

**Interdisciplinary Workshop on Opinion Dynamics and Collective Decision** 2023  
Constructor University, Bremen, Germany

**BIGSSS-CSS Summer School on Democratic Debate** 2023  
Constructor University, Bremen, Germany

**7th Pyrenean Interdisciplinary Research Event (PIREN)** 2022  
Institute for Advanced Study in Toulouse, France

## 8.3. Expert committees

**Expert Committee Strategic Multi-Annual Plan** 2020  
The Netherlands Institute for Social Research ('Sociaal en Cultureel Planbureau'), The Hague, The Netherlands

**Committee Data Transparency** 2018 – 2020  
University of Groningen, The Netherlands

## 8.4. Program committees

I have been a member of the program committees for the Summer School Series on Methods for Computational Social Science (2018-2019), BIGSSS' Computational Social Science Summer School and Research Incubator (on Social Cohesion, 2022; and on Democratic Debate, 2023), and AAMAS '23.

## 8.5. Workshops and tutorials

2021 'Social Influence Modeling in Python Using defSim' with Dieko Bakker and Anton Laukemper at the European Social Simulation Association's SocSimFest. [\[link\]](#)

2019 'Validating Models of Opinion Polarization in the Digital Era' with Jan Lorenz, Andreas Flache and Michael Mäs at the European conference for Computational Social Science. [\[link\]](#)

## 9. More information and references

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For a detailed CV and references, please email me at [marijn.keijzer@iast.fr](mailto:marijn.keijzer@iast.fr).