

CURRICULUM VITÆ

Antoine VENDEVILLE

Born on April 23rd, 1994 in Paris, France (29 years old).

Post-doctoral researcher

Médialab, Sciences Po Paris

Supervisory team

Pedro Ramaciotti Morales

Other affiliations

Paris Institute of Complex Systems

Digital Speech Lab

Complex Systems Society

Contact

E-mail: antoine.vendeville@sciencespo.fr

Web: <https://antoinevendeville.github.io>

Google Scholar profile

ACADEMIC POSITIONS

2023-2025

Post-doctoral researcher at Médialab Sciences Po, Paris. AI-Political Machines project, supervised by Pedro Ramaciotti Morales. Research topics: mathematical modeling of political opinions, interactions in online social platforms, and algorithmic recommendations.

2019-2023

PhD student, University College London, Department of Computer Science, Centre for Doctoral Training in Cybersecurity. *The echo chamber effect in social networks: theoretical analysis and steering strategies*. Supervised by Dr. Benjamin Guedj and Dr. Shi Zhou. Expected graduation: December 2023.

Summer 2019

Research assistant, Sorbonne Université. Department of Computer Science (LiP6), team NPA. Supervised by Anastasios Giovanidis, Bruno Baynat, Clémence Magnien. Duration 5 months.

Summer 2018

Research assistant, Sorbonne Université. Department of Computer Science (LiP6), team NPA. Supervised by Anastasios Giovanidis, Bruno Baynat, Clémence Magnien. Duration 5 months.

FUNDING

My post-doctoral research project at Sciences Po is funded by the McCourt institute. My PhD was funded by the UK EPSRC. In 2023, I received the yrCSS Bridge Grant, which fosters collaborations between young researchers.

RESEARCH VISITS

- IFISC, University of the Balearic Islands, Palma de Mallorca (Autumn 2023).
- SAILab, University of Siena, Italy (Autumn 2023).
- LiP6, Sorbonne Université, Paris (Spring 2022).

PUBLICATIONS

2023

- A. Vendeville, B. Guedj and S. Zhou. On discord in the voter model for complex networks. In review. Preprint on [arXiv](#).
- A. Vendeville, A. Giovanidis, E. Papanastasiou and B. Guedj. Opening up echo chambers via optimal content recommendations. Proceedings of Complex Networks and Their Applications XI, 2023. [Link](#).

2022

- A. Vendeville, B. Guedj and S. Zhou. Towards control of opinion diversity by introducing zealots into a polarised social group. Proceedings of Complex Networks and Their Applications X, 2022. [Link](#).

2021

- A. Giovanidis, B. Baynat, C. Magnien and A. Vendeville. Ranking Online Social Users by Their Influence. IEEE/ACM Transactions on Networking, 2021. [Link](#).
- A. Vendeville, B. Guedj and S. Zhou. Forecasting elections results via the voter model with stubborn nodes. Applied Network Science 6, 1, 2021. [Link](#).

2019

- A. Giovanidis, B. Baynat and A. Vendeville. Performance Analysis of Online Social Platforms. Proceedings of IEEE Conference on Computer Communications, 2019. [Link](#).

TALKS AND PRESENTATIONS

2023

- Echo chambers and opinion diversity in the Voter Model: towards regulation strategies for social networks. Presented on November 7, 2023 at the IFISC in Palma de Mallorca.

- Opening up Echo Chambers via Optimal Content Recommendation. Presented on April 25, 2023 at the [MédiaLab Sciences Po Paris](#).
- Opening up Echo Chambers via Optimal Content Recommendation. Presented on April 20, 2023 at the [NetPLACE](#).
- Opening up Echo Chambers via Optimal Content Recommendation. Presented on April 14, 2023 at the Data Natives seminar at City University, London.

2022

- Opening up Echo Chambers via Optimal Content Recommendation. Presented on November 8, 2022 at [Complex Networks 2022](#).
- Active links in the voter model with zealots, poster presented on October 20, 2022 at [Conference on Complex Systems](#).
- Recommendation of content to mitigate the echo chamber effect, poster presented on October 17, 2022 at [Conference on Complex Systems](#).
- Opening up Echo Chambers via Optimal Content Recommendation. Presented on 29, 2022 at Centre d'Economie de la Sorbonne, for the [Networks and Games](#) seminar.
- Fighting political echo chambers via content recommendation: Method and application to the 2017 French presidential elections, presented on June 29, 2022 at the Mediterranean School of Complex Networks ([MSCX](#)).
- Depolarising Social Networks: Optimisation of Exposure to Adverse Opinions in the Presence of a Backfire Effect, presented on April 12, 2022 at Sorbonne Université to the [Complex Networks](#) and [NPA](#) teams.
- Voter model with zealots for opinion control and forecast of election results, presented on January 7, 2022 at University College London, for the Information and Decision Systems research group ([IDS](#)).

2021

- Towards control of opinion diversity by introducing zealots into a polarised social group, poster presented on December 1, 2021 at [Complex Networks 2021](#).
- Voter Model with Stubborn Agents: from Theoretical Solutions to Prediction of Political Elections, presented on July 5, 2021 at [Networks 2021](#).

TEACHING

2021 Benjamin Guedj and I supervised Valentin Kilian for a 2 months research internship on opinion dynamics at [Inria](#).

2019-2023 Teaching assistant at University College London for [Complex Networks and Web \(COMP0123\)](#). 30h per academic year, 120h total.

2020-2021 Teaching assistant at University College London for [Introductory Programming \(COMP0066\)](#). 30h.

2013-2017 Private tutor of mathematics for high school students in Paris.

EDUCATION

2018-2019 Master 2 Data Science, Université Claude Bernard, Lyon.

2017-2018 Master 2 Mathematical Modelling, Sorbonne Université.

2015-2017 Master 1 Mathematics and Applications, Sorbonne Université.
2012-2015 Bachelor in Mathematics and Applications, Sorbonne Université.

PEER REVIEWS

I have reviewed papers for the following journals.

- Nature Scientific Reports (5 papers, 2020-2022).
- PLOS ONE (1 paper, 2022).
- Computer Communications (1 paper, 2022).
- Proceedings of the Royal Society A (1 paper, 2021).