# Curriculum Vitæ


## Antoine VENDEVILLE

Born on April 23 1994 in Paris, France.

**PhD student**
University College London
Centre for Doctoral Training in Cybersecurity
Department of Computer Science

**Supervisory team**
Benjamin Guedj
Shi Zhou

**Other affiliations**
The Inria London program

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## Academic Positions

**Since 2019**

PhD student, University College London.
- Computer Science Department
- Centre for Doctoral Training in Cybersecurity
- Supervised by Supervised by Benjamin Guedj and Shi Zhou.
- Expected duration 4 years.

**Summer 2019**

Research assistant, Sorbonne Université[1].
- Computer Science Department (LiP6), team NPA.
- Supervised by Anastasios Giovanidis, Bruno Baynat, Clémence Magnien.
- Duration 5 months.

**Summer 2018**

Research assistant, Sorbonne Université[1].
- Computer Science Department (LiP6), team NPA.
- Supervised by Anastasios Giovanidis, Bruno Baynat, Clémence Magnien.
- Duration 5 months.

## Publications

**2022**

• A. Vendeville, A. Giovanidis, E. Papanastasiou and B. Guedj. Opening up echo chambers via optimal content recommendations. Accepted at Complex Networks 2022. Preprint on arXiv, HAL.
• A. Vendeville, A. Giovanidis, E. Papanastasiou and B. Guedj. Recommendation of content to mitigate the echo chamber effect. Extended abstract. Accepted at CCS 2022.
• A. Vendeville, B. Guedj and S. Zhou. Active links density in the Voter Model with zealots. Extended abstract. Accepted at CCS 2022.

• A. Vendeville, B. Guedj and S. Zhou. Depolarising Social Networks : Optimisation of Exposure to Adverse Opinions in the Presence of a Backfire Effect. Submitted. Preprint on arXiv, HAL.
• 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. Preprint on arXiv, HAL.

**2021**

• A. Giovanidis, B. Baynat, C. Magnien and A. Vendeville. Ranking Online Social Users by Their Influence. IEEE/ACM Transactions on Networking, 2021. Preprint on arXiv, HAL.
• A. Vendeville, B. Guedj and S. Zhou. Forecasting elections results via the voter model with stubborn nodes. Applied Network Science 6, 1, 2021. Preprint on arXiv, HAL.

**2019**

• A. Giovanidis, B. Baynat and A. Vendeville. Performance Analysis of Online Social Platforms. IEEE INFOCOM 2019, pp. 2413-2421. Preprint on arXiv, HAL.

## Talks and Presentations

**2022**

• 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).
• 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.
**2019-2022** teaching assistant at University College London for Complex Networks and Web (COMP0123).
**2020-2021** teaching assistant at University College London for Introductory Programming (COMP0066).
**2013-2016** private maths tutor 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[1].
**2015-2017** Master 1 Mathematics and Applications, Sorbonne Université[1].
**2012-2015** Bachelor in Mathematics and Applications, Sorbonne Université [1].

## Peer Reviews

I have reviewed papers for the following journals.

- Nature Scientific Reports
- PLOS ONE
- Proceedings of the Royal Society A
- Computer Communications

1. Former Université Pierre et Marie Curie, Paris, France.