

# Vincent Cavez

## Curriculum Vitae

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### Education

- Since 2021 **PhD Student**, Inria Saclay, Paris-Saclay University, France.  
*Thesis: Post-WIMP Interactive Data Manipulation*  
*Advisors: Emmanuel Pietriga and Caroline Appert*
- 2020 **Master's Degree**, Paris-Descartes University, France.  
*Mathematical Engineering and Biostatistics - with high honours*
- 2019 **University Degree**, Paris-Saclay University, France.  
*Creation and Development of Innovative Start-ups*
- 2018 **Bachelor's Degree**, Paris-Saclay University, France.  
*Mathematics - Modelization Specialization*

### Research

- 2024 Vincent Cavez, Catherine Letondal, Emmanuel Pietriga, and Caroline Appert. 2024.  
CHI **Challenges of Music Score Writing and the Potentials of Interactive Surfaces.** Proceedings of the international conference on Human factors in computing systems, 16 pages, ACM, 2024. <https://doi.org/10.1145/3613904.3642079>
- 2023 Vincent Cavez, Caroline Appert, and Emmanuel Pietriga. 2024. **Spreadsheets on Interactive Surfaces: Breaking through the Grid with the Pen.** ACM Trans. Comput.-Hum. Interact. 31, 2, Article 16 (April 2024), 33 pages. <https://doi.org/10.1145/3630097>
- 2020 Vincent Cavez. Supervisors : Oscar De La Cruz and Antonin Goude. **Contributions to the development of an embedded object finder for the visually impaired.** INGIMA France.  
Master's Thesis

### Advisors

- 02/2024–08/2024 **Itinerary-driven Interaction for Map Navigation**, ILDA Team, Paris-Saclay University, France.  
MSc Student: Noémie Hanus

### Teaching

- 2022–2024 **Teaching Assistant - Winter School, M1 HCI**, Paris-Saclay University, France.  
Class of M1 students where they develop the skills to read, criticize and summarize research publications.
- 01/2016–07/2017 **Teaching Assistant - Mathematics, 7th to 9th Grade**, Mondétour Middle School, France.  
Observation of teaching methods, preparation of Mathematics lessons and quizzes, dispensing of lessons, correction of quizzes, individual support throughout the school year.

### Outreach

- 02/2024 **Meetup of Junior Women in Maths and Computer Science**, Animator.  
<https://filles-et-maths.fr/rjmi/>
- 12/2023 **2024 3MT® Paris-Saclay University Competition**, Finalist.  
<https://www.universite-paris-saclay.fr/three-minute-thesis-competition-3mtr#home200832>

- 10/2023 **PreVis '23**, *Speaker (Demo)*.  
<https://www.aviz.fr/Events/Previs2023>
- 02/2023 **L3 Students Lab Visit**, *Speaker (Demo)*.
- 12/2022 **Lab Day**, *Speaker*.
- 08/2022 **L2 Students Lab Visit**, *Speaker (Demo)*.
- 06/2022 **Ph.D. Days**, *Organizer, Speaker*.

## Service

- 05/2024 **CHI 2024**, *Reviewer, Session Chair*.
- 03/2024 **Paris-Saclay University Council of the Doctoral School**, *Elected Representative*.
- 03/2024 **Paris-Saclay University Pole Committee of the Doctoral School**, *Elected Representative*.
- 02/2024 **Inria Saclay Center Committee**, *Elected Representative*.

## Extra-Curricular Activities

- Since 05/2023 **Logosfer**: I am working with rhetoric experts to design and develop an interface for the interactive annotation of debate videos.
- Since 03/2023 **Alcurve**: I worked on a comprehensive mathematical model for the prediction of blood alcohol concentration. I am now developing a mobile application to visualize the BAC of the user in real-time for educational and prevention purposes.
- 07/2022 **Creartathon22**: I participated in a creative hackathon within a multi-disciplinary team of five students to design a creative, intelligent and interactive artifact.  
<https://creartathon.com/>
- 03/2021 **Cryptics**: I developed an R library for real-time cryptocurrency analysis.  
<https://github.com/VincentKV/Cryptics>
- 2017–2019 **Student's Union Treasurer**: I managed the bookkeeping and budget forecasting of the union and took part in the organization of events for graduate and undergraduate students.
- Since 2010 **Music Composition**: I make electronic and orchestral music that I occasionally play live. I also compose movie soundtracks.  
<https://lordaaron.bandcamp.com/>

## Online Certificates

- 10/2021 **Information Visualization: Programming with D3.js**, *New York University*.
- 02/2021 **Data Manipulation at Scale: Systems and Algorithms**, *University of Washington*.
- 04/2019 **Machine Learning**, *Stanford University*.

## Technical Skills

- Programming Languages **JavaScript** (D3.js, React Native, Bootstrap), **HTML**, **Python** (OpenCV, TensorFlow, Scikit-learn), **R** (Tidyverse, rvest, devtools), **Swift**
- Creative Software **Logic Pro X**, **Ableton Live**, **Adobe Premiere Pro**, **Adobe Illustrator**, **Blender**
- Operating Systems **Mac OS**, **Windows**, **Linux**, **RaspberryPi OS**, **Arduino OS**

## Languages

- French **Native**
- English **Fluent**