

Vincent Cavez

Curriculum Vitae

✉ contact@vincentcavez.com

Education

- Since 2021 **PhD Student**, *Inria Saclay*, Paris-Saclay University, France.
Thesis: Post-WIMP Interactive Data Manipulation
Advisors: Emmanuel Pietriga and Caroline Appert
- 2018–2020 **Master's Degree**, Paris-Descartes University, France.
Mathematical Engineering and Biostatistics - with high honours
- 2018–2019 **University Degree**, Paris-Saclay University, France.
Creation and Development of Innovative Start-ups
- 2014–2018 **Bachelor's Degree**, Paris-Saclay University, France.
Mathematics - Modelization Specialization

Research

- 2024 **Challenges of Music Score Writing and the Potentials of Interactive Surfaces**, with Catherine Letondal, Emmanuel Pietriga and Caroline Appert.
ACM Conference on Human Factors in Computing Systems, CHI 2024. To appear.
- 2023 **Spreadsheets on Interactive Surfaces: Breaking through the Grid with the Pen**, with Caroline Appert and Emmanuel Pietriga.
ACM Transactions on Computer-Human Interaction (TOCHI). 33 Pages.
<https://dl.acm.org/doi/10.1145/3630097>
- 2020 **Contributions to the development of an embedded object finder for the visually impaired**, with Oscar De La Cruz and Antonin Goude.
Master's Thesis

Advisorship

- 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 Class**, *7th to 9th Grade*, Mondétour Middle School, Les Ulis, 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 **Rencontre des Jeunes Mathématiciennes et Informaticiennes**, *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>
- 02/2023 **L3 Students Visit to the ILDA Team, Speaker.**
- 12/2022 **Journée du LISN, Speaker.**
- 08/2022 **L2 Students Visit to the ILDA Team, Speaker.**
- 06/2022 **Journées des Doctorants et Doctorantes, Speaker, Organizer.**

Participation in Committees and Reviewing

- 02/2024 **Comité de Centre Inria Saclay, Titular Member.**
<https://intranet.inria.fr/Inria/Instances/Comite-de-centre/Presentation>
- 09/2023 **CHI 2024, Reviewer.**

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 11/2023 **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 teams 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)
- 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,** Good understanding in written and spoken English. Correct writing and speaking.