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 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 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), **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**, Good understanding in written and spoken English. Correct writing and speaking. |