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 CHI	Vincent Cavez, Catherine Letondal, Emmanuel Pietriga, and Caroline Appert. 2024. **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 TOCHI	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 Master's Thesis	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.

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**, *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

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*.
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 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**