

# Vincent Cavez

## Curriculum Vitae

I am a french Postdoctoral Scholar in Human-Centered AI and Education at Stanford University.  
Under the supervision of Hari Subramonyam, I design AI and pen-based interfaces to support speech-language pathologists in tracking progress and optimizing interventions with their patients.

### Education

- 2025 **PhD**, Inria Saclay, Paris-Saclay University, France.  
*Human-Computer Interaction*  
*Research Topic: Designing Pen-based Interactions for Productivity and Creativity*  
*Advisors: Emmanuel Pietriga and Caroline Appert*
- 2020 **Master's Degree**, Paris-Cité 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

- 2025 Vincent Cavez, Catherine Letondal, Caroline Appert and Emmanuel Pietriga. 2025.  
CHI **EuterPen: Unleashing Creative Expression in Music Score Writing**. In CHI Conference on Human Factors in Computing Systems (CHI '25), April 26–May 01, 2025, Yokohama, Japan. ACM, New York, NY, USA, 16 pages.  
<https://doi.org/10.1145/3706598.3713488> (acceptance rate: 24.9%, 1249/5014)
- 2024 Vincent Cavez, Catherine Letondal, Emmanuel Pietriga, and Caroline Appert. 2024.  
CHI **Challenges of Music Score Writing and the Potentials of Interactive Surfaces**. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery, New York, NY, USA, Article 728, 1–16.  
<https://doi.org/10.1145/3613904.3642079> (acceptance rate: 26.3%, 1060/4028)
- 2024 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

- 05/2025–08/2025 **Touch Gestures to Support Score-based Musical Practice**, ILDA Team, Paris-Saclay University, France.  
MSc Student: Xintian Fu
- 02/2024–08/2024 **Itinerary-driven Interaction for Map Navigation**, ILDA Team, Paris-Saclay University, France.  
MSc Student: Noémie Hanus

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## Teaching

- Fall 2024 **Teaching Assistant - Design of Interactive Systems, M1–M2 HCI**, Paris-Saclay University.  
*Professor: Wendy Mackay*
- Fall 2024 **Teaching Assistant - Introduction to HCI, L2 CS**, Paris-Saclay University.  
*Professor: Michel Beaudouin-Lafon*
- Winter 2023, **Teaching Assistant - Winter School, M1 HCI**, Paris-Saclay University.  
Winter 2024 *Professor: Vanessa Peña-Araya*
- 01/2016–**Teaching Assistant - Mathematics, 7th to 9th Grade**, Mondétour Middle School.  
07/2017 *Teacher: Marie Decamps*

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## Outreach

- 04/2025 **ParaCHI Paris**, *Organizer, Speaker, Session Chair*, Paris, France.  
<https://sites.google.com/view/para-chi-paris25>
- 02/2025 **VISVAR Research Group**, *Invited talk*, Stuttgart, Germany.
- 10/2024 **11th Young Researchers in Human-Computer Interaction Meeting**, *Poster*, Saint-Pierre-d'Oléron, France.  
<https://rjc2024.afihm.org/>
- 05/2024 **Creativity Lab**, *Invited talk*, San Diego, USA.
- 02/2024 **Meetup of Junior Women in Maths and Computer Science**, *Animator*, Saclay, France.  
<https://filles-et-maths.fr/rjmi/>
- 12/2023 **2024 3MT® Paris-Saclay University Competition**, *Finalist*, Saclay, France.  
<https://www.universite-paris-saclay.fr/three-minute-thesis-competition-3mtr#home200832>
- 10/2023 **PreVis '23**, *Demo*, Saclay, France.  
<https://www.aviz.fr/Events/Previs2023>
- 12/2022 **LISN's HCI Department Day**, *Speaker*, Saclay, France.
- 06/2022 **LISN Ph.D. Days**, *Organizer, Speaker*, Saclay, France.

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## Service

- 04/2025 **VIS 2025**, *Reviewer*.
- 10/2024 **CHI 2025**, *Reviewer*.
- 07/2024 **ACM SIGCHI Paris Chapter**, *Elected Website Chair*.
- 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*.
- 06/2023 **Visu2023**, *Student Volunteer*.  
<https://journee-visu.github.io/2023/>

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## Extra-Curricular Activities

- 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), **HTML**, **CSS**, **Python** (OpenCV, TensorFlow, Scikit-learn), **R** (Tidyverse, rvest, devtools), **Swift**, **Go**  
Creative Software **Logic Pro X**, **Ableton Live**, **Adobe Premiere Pro**, **Final Cut Pro**, **Adobe Illustrator**, **Blender**  
Operating Systems **Mac OS**, **Windows**, **Linux**, **RaspberryPi OS**, **Arduino OS**

## Languages

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