

# Vincent Cavez

## Curriculum Vitae

### Academic Position

- 2025-present **Postdoc**, Stanford HAI, Graduate School of Education, Stanford University, USA.  
*Supporting Children with Developmental Language Disorder Using Narrative-Based Language Intervention through AI-assisted Storytelling, in Hari Subramonyam's Team*

### Education

- 2025 **PhD**, Inria Saclay, Paris-Saclay University, France.  
Computer Science (*Human-Computer Interaction*)  
Thesis: *Designing Pen-based Interactions for Productivity and Creativity*  
Advisors: Emmanuel Pietriga and Caroline Appert  
<https://theses.hal.science/tel-04986694>
- 2020 **Master's Degree**, Paris-Cité University, France.  
*Mathematical Engineering and Statistics - with high honours*  
Thesis: *Contributions to the development of an embedded object finder for the visually impaired*  
Advisors: Antonin Goude and Oscar De La Cruz
- 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*

### International Publications

- 2026 IUI Momin N. Siddiqui, **Vincent Cavez**, Sahana Rangasrinivasan, Abbie L Olszewski, Srirangaraj Setlur, Maneesh Agrawala and Hari Subramonyam. 2026.  
**Teaching Spell Checkers to Teach: Pedagogical Program Synthesis for Interactive Learning.** To appear in IUI '26: Proceedings of the 31st International Conference on Intelligent User Interfaces.
- 2025 CHI **Vincent Cavez**, Catherine Letondal, Caroline Appert and Emmanuel Pietriga. 2025.  
**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 CHI **Vincent Cavez**, Catherine Letondal, Emmanuel Pietriga, and Caroline Appert. 2024.  
**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 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>

## Poster

- 2024 **Designing Pen-based Interactions for Productivity and Creativity.** RJC IHM 2024,  
RJC IHM AFIHM  
<https://www.vincentcavez.com/RJCPaper.pdf>

## Mentoring

- 10/2025– **Marielle Zheng**, *Msc Student - Learning Design and Technology*, Stanford University, USA.  
present Supporting Children with Developmental Language Disorder Using Narrative-Based Language Intervention through AI-assisted Storytelling
- 09/2025– **Anika Rajaram**, *Intern from Harker High School*, Stanford University, USA.  
present Integrated Sketch and Code Approach for the Development of Physics Games
- 06/2025– **Momin Siddiqui**, *Visiting Research Assistant from the Georgia Institute of Technology - HCI*, Stanford University, USA.  
present Supporting Spelling in Children with Dyslexia Using Structured Word Inquiry with AI-driven Dialogue
- 06/2025– **Kashif Imteyaz**, *Visiting PhD Student from Northeastern University - HCI*, Stanford University, USA.  
08/2025 Integrated Sketch and Code Approach for the Development of Physics Games
- 05/2025– **Xintian Fu**, *MSc Student - HCI*, Paris-Saclay University, France.  
08/2025 Supporting Musicians' Score-based Practice with Context-Specific Annotations on Tablet
- 02/2024– **Noémie Hanus**, *MSc Student - HCI*, Paris-Saclay University, France.  
08/2024 Itinerary-driven Interaction for Map Navigation on Mobile

## 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

## Outreach

- 11/2025 **ASHA Convention**, *Invited talk*, Washington DC, USA.  
<https://convention.asha.org/>
- 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.afiham.org/>
- 05/2024 **Foundation Interface 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.

## Service

- 10/2025 **CHI 2026**, Reviewer.
- 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/>

## 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 **Figma, 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**