

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 Momin N. Siddiqui, **Vincent Cavez**, Sahana Rangasrinivasan, Abbie L Olszewski, Srirangaraj IUI 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 **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>

Poster

2024 **Designing Pen-based Interactions for Productivity and Creativity.** RJC IHM 2024, RJC IHM AFIHM
<https://www.vincentcavez.com/RJCPoster.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 Facilitating the Learning of Mechanics through the Generation of Widgets from Sketches

06/2025–**Momin Siddiqui**, *Visiting Research Assistant from the Georgia Institute of Technology - HCI*,
10/2025 Stanford University, USA.
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,
08/2025 USA.
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.afihm.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