Emmanuel Courtoux

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Education

2019–2023 **Ph.D., Human Computer Interaction**, *Université Paris-Saclay*, Gif-sur-Yvette.
Tangible Interaction, Wall Displays, Tactile Displays, Multimodal Interactions

2017–2019 : **Master of Information Technology, Human Computer Interaction**, *Université Paris-Saclay*, Gif-sur-Yvette.

2015–2017 : **Master of Education**, *Université Paris-Saclay*, Gif-sur-Yvette.

2014–2015 : **International Exchange in India**, *IIT Madras*, Chennai.

2012–2014 : **Bachelor of Computer Science**, *Université Paris-Saclay*, Gif-sur-Yvette.

Publications

In Conference Proceedings

2023 Emmanuel Courtoux, Caroline Appert, and Olivier Chapuis. Surfairs: Surface & mid-air input for large vertical displays. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*, CHI '23, New York, NY, USA, 2023. Association for Computing Machinery.

2021 Emmanuel Courtoux, Caroline Appert, and Olivier Chapuis. Walltokens: Surface tangibles for vertical displays. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, CHI '21, New York, NY, USA, 2021. Association for Computing Machinery.

Research Experience

Université Paris-Saclay, Gif-sur-Yvette

Sept,2019 – April,2023 ***Ph.D. thesis in Human Computer Interaction***, *Tangible Interaction for Wall Displays*.
Designing and evaluating tangible interactions for large vertical displays.

Advisor : **Dr. Caroline Appert**, *Senior Research Scientist in Human Computer Interaction*, CNRS (*Personal Web-page*)

Co-Advisor : **Dr. Olivier Chapuis**, *Research Scientist in Human Computer Interaction*, CNRS (*Personal Web-page*)

March,2019 – Sept,2019 ***Research Internship***, *Designing Tangible Controllers for Vertical Displays*.
Using digital fabrication to prototype tangible controllers for vertical displays.

Advisor : **Dr. Caroline Appert**, *Senior Research Scientist in Human Computer Interaction*, CNRS

Co-Advisor : **Dr. Olivier Chapuis**, *Research Scientist in Human Computer Interaction*, CNRS

Université Versailles Saint-Quentin, Versailles

Jan 2018 – Sept,2018 ***Student Research Project***.
Produce an algorithm and develop a model to mutualize food delivery.

Advisor : **Dr. Dominique Barth**, *Professor, Senior researcher in Graph Theory*, CNRS (*Personal Web-page*)

Software skills

Programming Languages	C#, C++, JAVA, R, Python, OpenCV
Web Technologies	HTML 5, PHP, Javascript
Design	Autodesk Fusion 360, Unity, Adobe Photoshop, Adobe Premiere Pro
Database	SQL, MySQL

Hardware skills

Digital Fabrication	3D Printer, Laser Cutter, CNC

Teaching

2019-2021 **Digital Fabrication**, *64H*, Université Paris -Saclay/FabLab Digiscope, Master 2 HCI.
TA

2019-2020 **Fundamentals of Human Computer Interaction**, *21H*, Université Paris -Saclay, Master 2 HCI.
TA

2019-2020 **Advanced Software Enginnering**, *18H*, Université Paris -Saclay, IT Bachelor, 3rd year.
TA

2019-2020 **Introduction to Functionnal Programming**, *14H*, Université Paris -Saclay, IT Bachelor, 3rd year.
TA

Scientific Research Promotion

July 2022 **Scientific talk for award ceremony**, *Créteil Olympiad of Mathematics*.

June 2022 **Animating workshops on web security**, *Science Fair*, Université Paris -Saclay.

Feb 2022 **Animating workshops on mathematical problem solving**, *Meeting of young female mathematician and computer scientist*.