OLIVIER CHAPUIS, Ph.D. – Curriculum Vitae
CRHC CNRS
August 2021

Abstract

Ph.D. in Mathematics in 1994 from Université Paris VII Diderot. CR CNRS position in 1995. Had spent eight years at Institut Girard Desargues (CNRS & Université Lyon-I), working on model theory, group and field theory and algebraic complexity. Published articles in journals such as Journal of Algebra and Journal of Symbolic Logic. Moved to Human-Computer Interaction and joined the InSitu team (LRI – Université Paris-Sud & CNRS, INRIA) in 2004, working on window management, pointing techniques, multiscale interaction, wall displays and mobile devices and collaborative interaction. Published articles and served as reviewer and associated chair in conferences such as CHI and UIST and received several best paper awards.

Currently head of the Human Centered Interaction department of the LISN, and member of the ILDA team (Inria Saclay, LISN). Was deputy head of the HCC team (LRI, 09/2013 – 12/2020), deputy director of the LRI (06/2017 – 12/2019), member of the executive team of the LRI (06/2014 – 06/2017), and co-head of the InSitu LRI team (08/2010 – 07/2012).

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Academic Positions

January 2021 - now: CNRS Research Scientist (CRHC) in Human Computer Interaction at LISN (Laboratoire Interdisplinaire des Sciences du Numérique), Université Paris-Saclay.
- Head of the Human Centered Interaction department of the LISN, January 2021 - on going.
- Member of the ILDA team (Inria & LISN), January 2015 – ongoing

January 2004 - December 2020: CNRS Research Scientist (CRCN) in Human Computer Interaction at LRI (Laboratoire de Recherche en Informatique), Université Paris-Sud.
- Deputy head of the HCC LRI team, September 2013 – December 2020.
- Member and deputy head of the ILDA team (Inria & LRI), January 2015 – December 2020.
- Member of the executive team of the LRI, July 2014 – June 2017.
- Interim co-head of the InSitu team (Inria & LRI), August 2010 to July 2012.
- Member of the InSitu team, January 2004 – September 2014.

October 1995 - December 2003: CNRS Research Scientist (chargé de recherche) in Mathematics at Institut Girard Desargues (now Institut Camille Jordan), Université Lyon 1.
- Moved to computer science around September 2002.
- Promoted CR1 in 1999.
**Education**

- Thesis defended on December 1994 [71].
- Mention très honorable avec félicitation du jury (i.e. with special honors).

**September 1990 - September 1991:** DEA (equivalent to a M.Sc.) “Logique Mathématique et Fondements de l’Informatique” at University Paris 7.

**Publications**


In the field of Human Computer Interaction, conferences are considered the primary method of publication. The ACM CHI and UIST conferences are particularly selective and are considered journal level work by the ACM/SIGCHI. See [http://dx.doi.org/10.1145/1743546.1743569](http://dx.doi.org/10.1145/1743546.1743569).

**Refereed Papers in Major International Conference Proceedings and Journals**


In Mathematics


Refereed Papers in National Conference Proceedings


Refereed Posters, Demos, Work in Progress and Workshop Papers


Technical Reports and Dissemination


Editorial Work


Thesis


Awards

- Best paper award at CHI 2014 for [20].
- Best paper award at VRST 2013 for [22].
- Best paper award at CHI 2012 for [27].
- Best paper award at CHI 2011 for [32].
- Honorable mention award at CHI 2009 for [36].

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Invited Talks


Supervision

Post docs

- Vit Rusnak at 25% (Post-doc Inria) with C. Appert et E. Pietriga. 2017.

- Daniel Spelmezan at 33% (Post-doc Inria) with C. Appert et E. Pietriga. 2011-2013.

- Ilaria Licardi at 30% (Post-doc Inria) with W. Mackay. 2010.
PhD students

- Emmanuel Courtoux with C. Appert (2019-). “Collaborative tangible interaction for wall displays”. Ongoing.

Master students

- Raphaël James at 33% with A. Bezerianos & Tim Dwyer. Studying collaboration using augmented reality and high-resolution Wall displays. April - September 2018.
- Reyhaneh Raissi at 50% with A. Bezerianos. “Multi-user Multi-selection on Tabletop”. April - September 2017.
- Jessalyn Alvina at 50% with C. Appert. “RouteLens: efficient route following for map applications”. April - September 2013.
• Maria Jesus Lobo at 50% with C. Appert. ‘Graphical interaction techniques for undo and redo”; January - March 2013.

• Stelios Frantzskakis at 50% with A. Bezerianos. “Navigating large information spaces on wall displays using mobile devices”. April - September 2012.

• Lei Chen at 50% with C. Appert. “Combining Pan-Zoom and Focus+Context for Multi-Scale Navigation on a Tablet”. April - September 2012.

• Julien Altieri “From a Laptop to a Wall-sized Display”, April - July 2011.

**Engineer**


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**Research Management and Organization**

• Head of the Human Centered Interaction department of the LISN. January 2020 – ongoing.

• Deputy head of the HCC LRI team. September 2013 - December 2020.

• Deputy director of the LRI, July 2017 – December 2019.

• Member of the executive committee of the LRI, July 2014 – June 2017.

• Deputy head of the ILDA Inria-LRI team. January 2015 - ongoing.

• Interim co-head of the InSitu LRI team from August 2010 to July 2012.

• Member and Vice-President of the executive committee of Association Francophone d’Interaction Homme-Machine [http://www.afihm.org/]. 2012 - 2016 (Vice-President 2014-2016).

• In charge of the relation with the SIF for the AFIHM, 2017 – ongoing.

• Member of the program committee of EquipEx Digiscope [http://www.digiscope.fr]. 2011 - ongoing.

• Member of the lab council of the LRI (elected). 2010 - 2014.

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**Evaluation of Research**

**Program Committee**

• MobileHCI Program Committee Member, *ACM International Conference on Mobile Human-Computer Interaction*: 2021.


• IHM Program Committee Co-Chair, *Conférence Francophone d’Interaction Homme-Machine*: 2014.

• IHM Program Committee Member, *Conférence Francophone d’Interaction Homme-Machine*: 2013.

• ACM CHI Program Committee Member, *ACM Conference on Human Factors in Computing*: 2010 and 2012.

• INTERACT Program Committee Member, *IFIP TC13 Conference in Human-Computer Interaction*: 2009 and 2013.

• Co-chaire of the 4ème Colloque Franco-Touranien de Théorie des Modèles, may 1997, CIRM, Luminy.

**Reviewing**

• ACM CHI, ACM UIST and IHM each year since 2006.


• Reviewer for ACM ToCHI, IEEE TVCG, IJHCS, HCI, etc.

• Reviewer for ANR (Agence Nationale de la Recherche), the NSERC-CRSNG (Natural Sciences and Engineering Research Council of Canada) and the FNR (Luxembourg National Research Fund).

**Hiring Committees**

• University Lille I hiring committee. 2010.

• University Paris-Sud hiring committee for a special MCF position coupled with an Inria Chair. 2010.


**PhD Jury Membership**


• Reviewer for Ulrich von Zadow PhD (“Personalized interaction with high-resolution wall displays”, Technische Universität Dresden, Germany, Raimund Dachselt), 2018.

• Examiner for Lili Tong PhD (“Designing and Analyzing Collaborative Activities in Multi-Surface Environments”, Université de Lyon et INSA, A. Youssef, G. Sébastien, S. Audrey, A. Tabard), 2017.

• Examiner for Jules Françoise PhD (“Motion-Sound Mapping by Demonstration”, Université Pierre et Marie Curie, S. Hanneton & F. Bevilacqua), 2015.

• Examiner for Xu Quan PhD (“Contribution à l’étude et au développement de techniques de gestion de fenêtres”, Université Lille 1, G. Casiez & C. Chaillou), 2010.

• Examiner for de Deborah M. Raphael (“Comparaison de propriétés modèle-théoriques et de propriétés algébriques des groupes polycycliques-par-finis”, Université Paris Diderot, G. Sabbagh), 1996.

Teaching

• 12 hours lectures. 3rd year Licence, Human Computer Interaction. Polytech, Univ Paris-Sud. 2015.


• 3 hours lectures on pointing, 2nd year Master "Computer Science". Univ Paris-Sud. 2010.

• 12 hours lectures and 12 hours guided classes. 3rd year Licence, Human Computer Interaction. Polytech, Univ Paris-Sud. 2010.


Funded Projects

• InterPlay (Interacting with Rich Display Ecosystems), funded by the French National Research Agency (ANR). Scientifique coordinator. 2022-2026.

• MemSpace (Interaction techniques using spatial memory to facilitate rapid access to commands and data). Funded by the DigiCosme LabEx. Participant. 2015-2018.


• Air Quality Monitoring in Korean Metropolises on Ultra-high-resolution Wall Displays. Transfer project funded by the Korea Institute of Science and Technology Information (KISTI). Participant. 2017.

• Digiscopes (Collaborative interaction with complex data and computation). Equipment of Excellence. Participant and member of the program committee. 2011-2020.


• MLSN (Multi-Level Social Networks), funded by the French National Research Agency (ANR). Participant 20%. 2009-2012.

• WILD (Wall-sized Interaction with Large Datasets). Funded by RTRA Digiteo and Région Île-de-France, Domaine d’Intérêt Majeur "Logiciels et systèmes complexes". Participant. 2008-2012.
- iStar (Moteur Multi-Langage d’Interaction), funded by the French National Research Agency (ANR), 2007-2012. Participant 20%.

#### Software

**Main Developer**

- WallTokens (With E. Courtoux & C. Appert), abstract tangible for collaborative interaction with wall display applications,
  https://walltokens.lisn.upsaclay.fr/

- Smarties, An input system for collaborative wall display applications,
  http://smarties.lri.fr/

- Metisse (with N. Roussel), Windowing system to explore innovative window management techniques,
  http://insitu.lri.fr/metisse/.

- WmTrace, Logging and visualizing user’s window management activity,
  http://www.lri.fr/~chapuis/software/wmtrace/

**Participations**

- MarkPad (B. Fruchard et E. Lecolinet), Augmenting Touchpads for Command Selection,
  https://brunofruchard.com/projects/markpad

- ZVTM (E. Pietriga et al.), Zoomable Visual Transformation Machine,
  http://zvtm.sourceforge.net/