

# Sylvain Malacria

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## Research interest

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I am a research scientist (Chargé de Recherche 1ère classe) at Inria, in the Loki group. Prior to that, I spent 10 months at the University College London and two years at the University of Canterbury (New-Zealand). I did my Ph.D. with Eric Lecolinet at Télécom ParisTech, and passed my Master Graduate at UPMC in Computer Science with a specialty in Artificial Intelligence and HCI.

My interests are in the area of Human-Computer Interaction with additional focus on designing new interaction techniques. In particular, I study how to improve the transition from novice to expert mode with Graphical User Interfaces, especially in the context of command selection. I have also designed, implemented and evaluated several novel interaction techniques that improve expert users performance while navigating large documents on touch sensitive surfaces. Overall, my research is typically stimulated by user interface performance bottlenecks that I then seek to remediate through interface design.

Beyond my immediate background in computer science, I draw on various set of skills, including interaction design, experimental psychology and statistical analysis.

## Experiences and Education

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| nov 2014 –           | <b>Research Scientist (CR1)</b><br>Inria Lille - Nord Europe , Lille, France   |
| nov 2013 – sep 2014  | <b>Research Assistant</b><br>UCL/BBC London Media Technology Campus, UCL, London, United Kingdom<br>with Dr John Dowell  |
| nov 2011 – oct 2013  | <b>Post doctoral researcher</b><br>HCI and Multimedia Lab, University of Canterbury, Christchurch, New-Zealand<br>with Professor Andy Cockburn ( <a href="http://www.cosc.canterbury.ac.nz/andrew.cockburn/">http://www.cosc.canterbury.ac.nz/andrew.cockburn/</a> ) |
| jun 2011 – sept 2011 | <b>Post doctoral researcher</b><br>VIA group, Telecom ParisTech, Paris, France<br>with Dr Eric Lecolinet   |
| oct 2007 – may 2011  | <b>Ph.D. in Computer Science</b> (With High Honors)<br>Title: Interaction techniques for touch-screens and digital pens<br>Advised by Eric Lecolinet<br>Telecom-ParisTech (Paris - France)   |
| 2005 – 2007          | <b>Master in Computer Science</b> (With Great Honors)<br>Artificial Intelligence and Decision<br>University Paris VI Pierre & Marie Curie, Paris, France   |
| 2003 – 2005          | <b>Bachelor in Computer Science</b> (With Honors)<br>University Paris VI Pierre & Marie Curie, Paris, France   |

## Publications

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### International conference publications

- CHI '23 D. Masson, S. Malacria, G. Casiez and D. Vogel.(2023). *Charagraph: Interactive Generation of Charts for Realtime Annotation of Data-Rich Paragraphs*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2023) (AR: 27% (880/3182)) – PDF – doi
- CHI '23 D. Masson, S. Malacria, D. Vogel, E. Lank and G. Casiez.(2023). *ChartDetective: Easy and Accurate Interactive Data Extraction from Complex Vector Charts*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2023) (AR: 27% (880/3182)) – PDF – doi
- CHI '23 B. Fruchard, S. Malacria, G. Casiez and S. Huot.(2023). *User Preference and Performance using Tagging and Browsing for Image Labeling*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2023) (AR: 27% (880/3182)) – PDF – doi
- GI '23 Y. Chen, G. Casiez, S. Malacria and E. Lank.(2023). *Exploring the Effects of Intended Use on Targeting in Virtual Reality*. Proceedings of the Graphics Interface 2023 Conference (2023) (AR: 46% (14/30))
- TOCHI' 22 K. Fennedy, A. Srivastava, S. Malacria and S. Perrault.(2022). *Towards a Unified and Efficient Command Selection Mechanism for Touch-Based Devices Using Soft Keyboard Hotkeys*. ACM Transactions on Computer-Human Interaction (2022) – PDF – doi
- Handbook G. Bailly and S. Malacria.(2022). *Command Selection*. Handbook of Human Computer Interaction – doi
- UIST '21 R. Hanada, D. Masson, G. Casiez, M. Nancel and S. Malacria.(2021). *Relevance and Applicability of Hardware-independent Pointing Transfer Functions*. Proceedings of the ACM Symposium on User Interface Software and Technology (2021) (AR: 26% (95/367)) – PDF – Video – Talk – exe – Code – doi
- CHI '21 A. Antoine, S. Malacria, N. Marquardt and G. Casiez.(2021). *Interaction Illustration Taxonomy: Classification of Styles and Techniques for Visually Representing Interaction Scenarios*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2021) (AR: 26%) – PDF – Talk – Code – doi
- UIST '20 P. Schmid, S. Malacria, A. Cockburn and M. Nancel.(2020). *Interaction Interferences: Implications of Last-Instant System State Changes*. Proceedings of the ACM Symposium on User Interface Software and Technology (2020) (AR: 21.5%) – PDF – Video – Talk – doi
- MobileHCI '20 K. Fennedy, S. Malacria, H. Lee and S. Perrault.(2020). *Investigating Performance and Usage of Input Methods for Soft Keyboard Hotkeys*. Proceedings of the ACM Conference on Human-Computer Interaction with Mobile Devices and Services (2020) (AR: 24% (39/161)) – PDF – Talk – doi
- DIS '20 J. Alvina, A. Bunt, P. Chilana, S. Malacria and J. McGrenere.(2020). *Where is that Feature? Designing for Cross-Device Software Learnability*. Proceedings of the ACM Conference on Designing Interactive Systems (2020) (AR: 24% (139/578)) – PDF – Talk – doi
- CHI '20 J. Henderson, S. Malacria, M. Nancel and E. Lank.(2020). *Investigating the Necessity of Delay in Marking Menu Invocation*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2020) (AR: 24%) – PDF – Video – Talk – doi
- CHI '20 D. Masson, S. Malacria, E. Lank and G. Casiez.(2020). *Chameleon: Bringing Interactivity to Static Digital Documents*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2020) (AR: 24%) – PDF – Video – Talk – Web – Code – doi
- ISS '19 N. Pong and S. Malacria.(2019). *Awareness, Usage and Discovery of Swipe-Revealed Hidden Widgets in IOS*. Proceedings of the ACM Conference on Interactive Surfaces and Spaces (ISS 2019) (AR: AR: 30% (26/85)) – PDF – Talk – doi
- Interact '19 A. Antoine, S. Malacria, N. Marquardt and G. Casiez.(2019). *Esquisse: Using 3D Models Staging to Facilitate the Creation of Vector-Based Trace Figures*. Proceedings of the IFIP Conference on Human-Computer Interaction (Interact 2019) (AR: 29%) – PDF – Video – Code – doi
- CHI '18 A. Goguy, S. Malacria and C. Gutwin.(2018). *Improving Discoverability and Expert Performance in Force-Sensitive Text Selection for Touch Devices with Mode Gauges*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2018) (AR: 25%) – PDF – Video – doi

- CHI '18 J. Avery, S. Malacria, M. Nancel, G. Casiez and E. Lank.(2018). *Introducing Transient Gestures to Improve Pan and Zoom on Touch Surfaces*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2018) (AR: 25%) – PDF – Video – Talk – doi
- CHI '18 A. Antoine, S. Malacria and G. Casiez.(2018). *Using High Frequency Accelerometer and Mouse to Compensate for End-to-End Latency in Indirect Interaction*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2018) (AR: 25%) – PDF – Video – Talk – doi
- CHI '18 S. Siddhpuria, S. Malacria, M. Nancel and E. Lank.(2018). *Pointing at a Distance with Everyday Smart Devices*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2018) (AR: 25%) – PDF – Video – doi
- UIST '17 D. Masson, A. Goguy, S. Malacria and G. Casiez.(2017). *WhichFingers: Identifying Fingers on Touch Surfaces and Keyboards Using Vibration Sensors*. Proceedings of the ACM Symposium on User Interface Software and Technology (2017) (AR: 22%) – PDF – Video – Web – doi
- CHI '17 E. Giannidakis, G. Bailly, S. Malacria and F. Chevalier.(2017). *IconHK: Using Toolbar Button Icons to Communicate Keyboard Shortcuts*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2017) (AR: 25%) – PDF – Video – doi
- CHI '17 A. Antoine, S. Malacria and G. Casiez.(2017). *ForceEdge: Controlling Autoscroll on Both Desktop and Mobile Computers Using the Force*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2017) (AR: 25%) – PDF – Video – doi
- IJHCS '17 J. Aceituno, S. Malacria, P. Quinn, N. Roussel, A. Cockburn and G. Casiez.(2017). *The design, use, and performance of edge-scrolling techniques*. International Journal of Human-Computer Studies – PDF – doi
- CHI '16 G. Bailly, S. Sahdev, S. Malacria and T. Pietrzak.(2016). *LivingDesktop: Augmenting Desktop Workstation with Actuated Devices*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2016) (AR: 23%) – PDF – Video – doi
- MobileHCI '15 M. Constantinides, J. Dowell, D. Johnson and S. Malacria.(2015). *Exploring Mobile News Reading Interactions for News App Personalisation*. Proceedings of the ACM Conference on Human-Computer Interaction with Mobile Devices and Services (2015) (AR: 27%) – PDF – Video – doi
- CHI '15 S. Malacria, J. Aceituno, P. Quinn, G. Casiez, A. Cockburn and N. Roussel.(2015). *Push-Edge and Slide-Edge: Scrolling by Pushing Against the Viewport Edge*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2015) (AR: 23%) – PDF – Video – doi
- PUC '15 J. Dowell, S. Malacria, H. Kim and E. Anstead.(2015). *Companion apps for information-rich television programmes: representation and interaction*. Personal and Ubiquitous Computing – PDF – doi
- CHI '14 C. Gutwin, A. Cockburn, J. Scarr, S. Malacria and S. Olson.(2014). *Faster Command Selection on Tablets with FastTap*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2014) (AR: 23%) – PDF – Video – doi
- CSUR '15 A. Cockburn, C. Gutwin, J. Scarr and S. Malacria.(2014). *Supporting Novice to Expert Transitions in User Interfaces*. ACM Computing Surveys 2015 – PDF – doi
- UIST '13 P. Quinn, S. Malacria and A. Cockburn.(2013). *Touch Scrolling Transfer Functions*. Proceedings of the ACM Symposium on User Interface Software and Technology (2013) (AR: 20%) – PDF – Video – Web – doi
- UIST '13 S. Malacria, J. Scarr, A. Cockburn, C. Gutwin and T. Grossman.(2013). *Skillometers: Reflective Widgets That Motivate and Help Users to Improve Performance*. Proceedings of the ACM Symposium on User Interface Software and Technology (2013) (AR: 20%) – PDF – Video – doi
- CHI '13 J. Scarr, A. Cockburn, C. Gutwin and S. Malacria.(2013). *Testing the Robustness and Performance of Spatially Consistent Interfaces*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2013) (AR: 20%) – PDF – Video – doi
- CHI '13 Q. Roy, S. Malacria, Y. Guiard, E. Lecolinet and J. Eagan.(2013). *Augmented Letters: Mnemonic Gesture-Based Shortcuts*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2013) (AR: 20%) – PDF – Video – doi

- CHI '13 S. Malacria, G. Bailly, J. Harrison, A. Cockburn and C. Gutwin.(2013). *Promoting Hotkey Use through Rehearsal with ExposeHK*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2013) (AR: 20%) – PDF – Video – doi
- AVI '12 T. Pietrzak, S. Malacria and E. Lecolinet.(2012). *S-Notebook: Augmenting Mobile Devices with Interactive Paper for Data Management*. Proceedings of the Conference on Advanced Visual Interfaces (2012) (AR: 28%) – PDF – doi
- INTERACT '11 S. Malacria, T. Pietrzak, A. Tabard and E. Lecolinet.(2011). *U-Note: Capture the Class and Access It Everywhere*. Proceedings of the IFIP Conference on Human-Computer Interaction (2011) (AR: 27%) – PDF – doi
- CHI '10 S. Malacria, E. Lecolinet and Y. Guiard.(2010). *Clutch-Free Panning and Integrated Pan-Zoom Control on Touch-Sensitive Surfaces: The Cyclostar Approach*. Proceedings of the ACM Conference on Human Factors in Computing Systems (2010) (AR: 22%) – PDF – Video – doi

### International juried publications

- CHI EA '23 B. Fruchard, C. Avezou, S. Malacria, G. Casiez and S. Huot.(2023). *A Case Study on the Design and Use of an Annotation and Analytical Tool Tailored To Lead Climbing*. Extended Abstracts of the 2023 HI Conference on Human Factors in Computing Systems (Case Study) (AR: 30% (37/124)) – PDF – doi
- CHI EA '20 D. Masson, S. Malacria, E. Lank and G. Casiez.(2020). *Bringing Interactivity to Research Papers and Presentations with Chameleon*. Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (Interactivity) – PDF – Video – Web – Code – doi
- CHI EA '18 A. Antoine, S. Malacria and G. Casiez.(2018). *TurboMouse: End-to-End Latency Compensation in Indirect Interaction*. Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (Interactivity) – PDF – Video – doi
- CHI EA '16 C. Frisson, S. Malacria, G. Bailly and T. Dutoit.(2016). *InspectorWidget: A System to Analyze Users Behaviors in Their Applications*. Extended Abstracts of the 2016 CHI Conference on Human Factors in Computing Systems (Late Breaking Work) – PDF – Code – doi
- MobileHCI EA '15 M. Constantinides, J. Dowell, D. Johnson and S. Malacria.(2015). *Habito News: A Research Tool to Investigate Mobile News Reading*. Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct – doi
- CHI EA '12 S. Perrault, S. Malacria, Y. Guiard and E. Lecolinet.(2012). *Watchit: Simple Gestures for Interacting with a Watchstrap*. Extended Abstracts of the 2012 CHI Conference on Human Factors in Computing Systems (Video) – PDF – Video – doi
- CHI EA '11 M. Baglioni, S. Malacria, E. Lecolinet and Y. Guiard.(2011). *Flick-and-Brake: Finger Control over Inertial/Sustained Scroll Motion*. Extended Abstracts of the 2011 CHI Conference on Human Factors in Computing Systems (Late Breaking Work) – PDF – Video – doi

### Workshop publications

- ETIS '17 T. Pietrzak, G. Bailly and S. Malacria.(2017). *Actuated Peripherals as Tangibles in Desktop Interaction*. Proceedings of the European Tangible Interaction Studio (ETIS 2017) – PDF
- WSICC '14 J. Dowell, S. Malacria and S. O'Halpin.(2014). *Concept mapping second screens to augment understanding of science on television*. 2nd International Workshop on Interactive Content Consumption at TVX'14 – PDF
- Papercomp '10 T. Pietrzak, S. Malacria and E. Lecolinet.(2010). *What do U-Note? An Augmented Note Taking System for the Classroom*. Adjunct Proceedings of UbiComp 2010, Papercomp Workshop – PDF

### Domestic publications

- IHM EA '23 G. Casiez, S. Malacria and E. Mackamul.(2023). *Signifdgets : What you see is what widget !*. Adjunct Proceedings of the Conference on Interaction Humain-Machine (2023)

- IHM EA '23 B. Fruchard, S. Malacria, G. Casiez and S. Huot.(2023). *Démonstration d'un outil d'annotation et d'analyse de vidéos d'escalade de difficulté*. Adjunct Proceedings of the Conference on Interaction Humain-Machine (2023)
- IHM '22 A. Goguey, S. Malacria, D. Vogel and G. Casiez.(2022). *Étude de l'influence de la taille des sphères virtuelles de contrôle sur les rotations 3D*. Proceedings of the Conference on Interaction Humain-Machine (2022) (AR: 59%) – PDF – doi
- IHM '19 A. Goguey, S. Malacria, A. Cockburn and C. Gutwin.(2019). *Reducing Error Aversion to Support Novice-to-Expert Transitions with FastTap*. Proceedings of the Conference on Interaction Humain-Machine (2019) (AR: 48%) – PDF – Talk – doi
- IHM '16 S. Malacria, A. Goguey, G. Bailly and G. Casiez.(2016). *Multi-Touch Trackpads in the Wild*. Proceedings of the Conference on Interaction Humain-Machine (2016) – PDF – Video – doi
- IHM EA '16 A. Antoine, S. Malacria and G. Casiez.(2016). *Controlling Autoscroll on Trackpads Using the Force*. Adjunct Proceedings of the Conference on Interaction Humain-Machine (2016) – PDF – doi
- IHM '15 M. Berthelley, E. Cayez, M. Ajem, G. Bailly, S. Malacria and E. Lecolinet.(2015). *SpotPad, LociPad, ChordPad and InOutPad: Investigating Gesture-Based Input on Touchpad*. Proceedings of the Conference on Interaction Humain-Machine (2015) (AR: 50%) – PDF – doi
- IHM '14 T. Pietrzak, S. Malacria and G. Bailly.(2014). *CtrlMouse et TouchCtrl: Duplicating Mode Delimiters on the Mouse*. Proceedings of the Conference on Interaction Humain-Machine (2014) (AR: 56%) – PDF – doi
- IHM '13 G. Bailly and S. Malacria.(2013). *MenuInspector: Outil Pour l'analyse Des Menus et Cas d'étude*. Proceedings of the Conference on Interaction Humain-Machine (2013) (AR: 38%) – PDF – Web – doi
- IHM '09 S. Malacria and E. Lecolinet.(2009). *U-Note: Classe Augmentée et Stylo Numérique*. Proceedings of the Conference on Interaction Humain-Machine (2009) (AR: 35%) – PDF – doi
- IHM '08 S. Malacria and E. Lecolinet.(2008). *Espace de Caractérisation Du Stylo Numérique*. Proceedings of the Conference on Interaction Humain-Machine (2008) (AR: 44%) – PDF – doi

## Talks

- I presented (or will present) all the articles marked with an \* .
- *Recognition or recall? The case of expert features in GUIs*, March 4th 2020, Chatham Labs, Toronto, Canada.
- *Recognition or recall? The case of expert features in GUIs*, March 2nd 2020, University of Waterloo, Waterloo, Canada.
- *Recognition or recall? The case of expert features in GUIs*, February 27th 2020, University of Toronto, Toronto, Canada.
- *Advanced interaction techniques to favor the transition from novice to expert behavior*, October 1st 2017, 1st International Symposium on User Expertise and Interactive Systems, Paris, France.
- *Opportunities and limits of Adaptive User Interfaces*, June 27-28 2016, Technology and Routines workshop, Bavarian Academy of Sciences and Humanities, Munich, Germany.
- *Computing tools to empower users*, November 19 2015, UCLIC seminar, University College London, United Kingdom.
- *Improving user's expertise with user interfaces* at SIGCHI Paris, February 7 2014, Laboratoire de Recherche en Informatique, France.
- *Improving user's intermodal expertise*, July 9 2013, UCL/BBC London Media Technology Campus, United Kingdom.
- *The design and evaluation of mechanisms promoting hotkey use*, April 19 2014, Inria Bordeaux, France
- *The design and evaluation of mechanisms promoting hotkey use*, April 25 2014, Max Planck Institute for Informatics, Germany.
- ACM SigCHI Paris “Interfaces de demain” showcase, July 7 2011, Paris.
- Bell-labs open days, May 11-13 2011, Villarsceaux.

- Paris Region Innovation Tour 2008, 19th of November 2008, Cité des Sciences et de l’Industrie, Paris.

## Research activities

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### Rewieiving

I frequently serve as a reviewer for the main HCI conferences, especially:

- ACM Symposium on User interface software and technology (UIST).
- ACM Conference on Human Factors in Computing Systems (CHI).
- ACM Conference on Interactive Surfaces and Spaces (ISS).
- ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI).
- IFIP TC13 Conference on Human-Computer Interaction (INTERACT).
- The interdisciplinary journal of Human-Computer Interaction (Interacting With Computers).
- ACM Conférence francophone sur l’Interaction Homme-Machine (IHM).

### Volunteering

- Program Committee Member for the CHI 2021 conference (Engineering Interactive Systems and Technologies subcommitte).
- Member of the ACM ISS Editorial Board
- Program Committee Member for the ISS 2019 conference.
- Interactivity co-chair for CHI 2021 alongside Pedro Lopes and Yuta Sugiura.
- Demonstration co-chair for ISS 2020 alongside Christian Holz.
- Interactivity co-chair for CHI 2020 alongside Ian Oakley and Walter Lasecki.
- Program Committee Member for the ISS 2019 conference.
- Program Committee Member for CHI 2017 and CHI 2018 (Interaction Techniques and Devices, and Modalities subcommitte).
- Program Committee Member for the Mobile HCI 2016 conference.
- Program Committee Member for the French-speaking HCI conference (IHM 2014, 2015).
- Program Committee Member for Workshops for CHI 2014, CHI 2015 conferences.
- Program Committee Member for the Fifteenth Australasian User Interface Conference (AUIC 2014).
- UCLIC PhD showcase session chair (2014).
- Weekly meetings management in the HCI Lab of the University of Canterbury(2012-2013).
- ACM SigCHI Paris “Interfaces de demain” showcase, July 7 2011, Paris.

## Teaching

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Title	Location	Years	Total Volume
Gestural Interaction	IMT Lille Douai	2017-2022	3h lectures 4h guided classes
Advanced HCI	University of Lille	2017-2022	6h lectures 6h guided classes
HCI	University of Lille	2014-2022	24h lectures 48h guided classes
Participatory Design	Institut Villebon	2015-2018	17h lectures 34h guided classes
Interfaces & Interactivity	University College London	2013-2014	8h lectures 10h guided classes
Introduction to HCI	University of Canterbury	2011-2012	3h lectures
Programming paradigms	Telecom-ParisTech	2007-2010	50h guided classes
Java programming	Telecom-ParisTech	2007-2010	50h practical classes 14h guided classes 2h30 lectures
Introduction to HCI	Univ. Paris 6	2008-2009	3h lectures
Java Group projects	Telecom-ParisTech	2007-2009	50h guided classes
Micro-project	Telecom-ParisTech	2007-2008	12h guided classes

## Supervision

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### PhD Supervisions

- 2020- Constant Yuan Chen (co-supervisors Géry Casiez and Dan Vogel) — Interaction in Spatially Augmented Reality — Defense expected in 2023
- 2020- Eva Mackamul (co-supervisor Géry Casiez) — Improving the Discoverability of Interactions in Interactive Systems — Defense expected in 2023
- 2019- Damien Masson (co-supervisors Géry Casiez and Dan Vogel) — Re-thinking charts and figures in scientific documents — Defense expected in 2023
- 2017-2020 Axel Antoine (Director Géry Casiez) — Études des stratégies et conception d’outils pour la production de supports illustratifs d’interaction — Defender January 2021
- 2016-2020 Nicole Pong (Co-directors Stéphane Huot and Nicolas Roussel) — Interacting with Signifier-less Designs: the Case of Swhidgets — Defended October 2020

### Other Supervisions (not up to date)

- 2018-2020 Supervising Raiza Sarkis Hanada Post-Doc (co-supervisors Géry Casiez and Mathieu Nancel)
- 2019 Co-supervisor with Thomas Pietrzak and Géry Casiez of Pierrick Uro undergraduate summer internship (University of Lille)
- 2019 Co-supervisor with Mathieu Nancel of Philippe Schmid Master 2 internship (University of Lille)
- 2016-2017 Co-supervisor with Géry Casiez of Axel Antoine Master 1 and 2 summer internships (University of Lille)
- 2017-2018 Co-supervisor with Géry Casiez of Damien Masson Master 1 and Master 2 projects (University of Lille)
- 2016 Co-supervisor with Géry Casiez and Alix Goguey of Damien Masson undergraduate summer internship (University of Lille)
- 2016 Co-supervisor with Géry Casiez of Axel Antoine and Sofiane Rahahoui Master 1 projects (University of Lille)
- 2014 Supervisor of Hana Kim master student project. (University College London)
- 2012 Co-supervisor with Professor Cockburn of Joel Harrison honors project. (University of Canterbury)

## Fundings

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- ANR JCJC Discovery (19.1% funding rate).
- CRIStAL Associated International Laboratory with the HCI Lab at University of Waterloo.
- Inria Lille - North Europe associated team (with UCLIC) to collaborate on the production of illustrative figures.