

Bruno Fruchard

PH.D. STUDENT

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EDUCATION

Bachelor in Computer Science

BACHELOR'S DEGREE

- General knowledge about Computer Science

Université Paris-Sud, France

Sep. 2011 - Jun. 2013

Master of Science in Computer Science

MASTER'S DEGREE

- Courses focused on Human-Computer Interaction

Université Paris-Sud, France

Sep. 2013 - Sep. 2015

Working on a Ph.D. Thesis

PH.D. THESIS

- *Interaction Techniques Exploiting Memory to Facilitate Access to Commands*

Télécom ParisTech, France

Oct. 2015 - Dec. 2018

EXPERIENCE

Development of a Multi-Scaled Realistic Librarian Chat Bot

ENGINEERING INTERNSHIP

- Engineering Internship made in the CPU team (CNRS) supervised by [Nicolas Sabouret](#)
- Implementation of a virtual agent with several realistic levels

LIMSI, France

Apr. 2013 - Jul. 2013

Smarties: An Input System for Wall Display Development

ENGINEERING INTERNSHIP

- improvement of the [Smarties](#) software

Université Paris-Sud, France

Apr. 2014 - Jul. 2014 (1 day a week)

Virtual Navigation on Wall-Displays

RESEARCH ASSISTANT INTERNSHIP

- Internship made in the ILDA team (INRIA) supervised by [Olivier Chapuis](#) and [Emmanuel Pietriga](#)
- Comparison of pan & zoom techniques on wall-sized displays

Université Paris-Sud, France

Apr. 2015 - Sep. 2015

PUBLICATIONS

- [1] Bruno Fruchard. "Interaction Techniques Exploiting Memory to Facilitate Command Activation". In: *29ème conférence francophone sur l'Interaction Homme-Machine*. Ed. by AFIHM. Rencontres doctorales. AFIHM. Poitiers, France, Aug. 2017. URL: <https://hal.archives-ouvertes.fr/hal-01577856>.
- [2] Bruno Fruchard, Eric Lecolinet, and Olivier Chapuis. "Démonstration de MarkPad : Augmentation du pavé tactile pour la sélection de commandes". In: *29ème conférence francophone sur l'Interaction Homme-Machine*. Ed. by AFIHM. AFIHM. Poitiers, France, Aug. 2017, 2 p. URL: <https://hal.archives-ouvertes.fr/hal-01577687>.
- [3] Bruno Fruchard, Eric Lecolinet, and Olivier Chapuis. "Impact of Semantic Aids on Command Memorization for On-body Interaction and Directional Gestures". In: *Proceedings of the 2018 International Conference on Advanced Visual Interfaces*. AVI '18. Castiglione della Pescaia, Grosseto, Italy: ACM, 2018, 14:1–14:9. ISBN: 978-1-4503-5616-9. DOI: [10.1145/3206505.3206524](https://doi.org/10.1145/3206505.3206524). URL: <http://doi.acm.org/10.1145/3206505.3206524>.
- [4] Bruno Fruchard, Eric Lecolinet, and Olivier Chapuis. "MarkPad: Augmenting Touchpads for Command Selection". In: *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems*. CHI '17. Denver, Colorado, USA: ACM, 2017, pp. 5630–5642. ISBN: 978-1-4503-4655-9. DOI: [10.1145/3025453.3025486](https://doi.org/10.1145/3025453.3025486). URL: <http://doi.acm.org/10.1145/3025453.3025486>.

SUPERVISION

Longitudinal Study on the MarkPad Software

YANIS MENDI - FIRST YEAR MASTER'S STUDENT IN COGNITIVE ERGONOMICS

- Supervised by Stéphane Safin 80%, **Bruno Fruchard 20%**
- Study on the MarkPad prototype to evaluate its appropriation by the users

Télécom ParisTech, France

Jan. - Jun. 2018

VOLUNTEERING

Journée Interaction Homme-Machine et Intelligence Artificielle

STUDENT VOLUNTEER

- Helping for the organization of this event.

UPMC, France

Mar. 17, 2017

ACM CHI 2017

STUDENT VOLUNTEER

- 20 hours spent to help organizing the event

Denver, CO, USA

May 6-11, 2017

UEIS 2017

STUDENT VOLUNTEER

- Helping the organization of this event.

UPMC, France

Oct. 31, 2017

Reviewer for international conferences

FULL PAPER CHI'18, WORK IN PROGRESS TEI'18

Reviewer for national conferences

FULL PAPER IHM'18

Reviewer for journals

FULL PAPER IJHCS 2018

TEACHING

IGR201: Développement d'apps interactives 2D, 3D, Mobile et Web

TEACHING ASSISTANT

- Development of interactive applications in different contexts
- Languages used: C++, Java, JavaScript

Télécom ParisTech, France

2015-2017

INF224: Paradigmes de programmation

TEACHING ASSISTANT

- Object-Oriented Programming in C++

Télécom ParisTech, France

2015-2018

INF723: Java et Génie Logiciel

TEACHING ASSISTANT

- Java programming

Télécom ParisTech, France

2015-2016

IGR203: Interaction Homme-Machine

TEACHING ASSISTANT

- Human Computer-Interaction theory and programming

Télécom ParisTech, France

2016-2018

INF224: Paradigmes de programmation

TEACHING ASSISTANT

- Object-Oriented Programming in C++

Télécom ParisTech, France

2016-2018

IGR204: Visualization

TEACHING ASSISTANT

- Visualization theory and programming
- Tools used: D3 and Processing

Télécom ParisTech, France

2016-2018

SLR207: Infrastructures et plateformes pour l'informatique répartie

TEACHING ASSISTANT

- Distributed computing programming in Java

Télécom ParisTech, France

2016-2017

INF727: Systèmes Répartis pour le Big Data

TEACHING ASSISTANT

- Distributed computing programming in Java

Télécom ParisTech, France

2017-2018

SCIENTIFIC MANIFESTATIONS

"Qu'est-ce qu'un chercheur en IHM ?"

TALK

- Presentation of HCI research to highschool students

Télécom ParisTech, France

Oct. 28, 2016

"Qu'est-ce qu'un chercheur en IHM ?"

TALK

- Presentation of HCI research to highschool students

Télécom ParisTech, France

Oct. 27, 2017