

Martin Hachet

INRIA research scientist

Born on 13/05/1977

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<http://people.bordeaux.inria.fr/hachet/>



Team leader of Potioc, Joint project-team: Inria, CNRS and Univ. Bordeaux

<https://team.inria.fr/potioc>

Research topics : Human-Computer Interaction, tangible interaction, 3D User Interfaces, Virtual Reality, augmented reality

Education and positions

2010: Habilitation (HDR), Université Bordeaux 1

3D User Interfaces, from mobile devices to immersive virtual environments

2004: Postdoctoral fellow at – Human-Interface Engineering Lab , Osaka University

2003–05: ATER (Temporary Assistant professor) – Université Bordeaux 1

2003: PhD in Computer Science, Université Bordeaux 1

Interaction avec des environnements virtuels affichés au moyen d'interfaces de visualisation collective

Participation to the Scientific Community

Steering committee: IEEE 3DUI - *Symposium on 3D User Interfaces*.

Program Chair: IEEE 3DUI 2011, IEEE 3DUI 2010, ACM VRST 2008 (+ local organization)

Other Chairing: JVRC (*EGVE/EuroVR/VEC*), 2010 Demonstration co-chair, 2009 Poster co-chair.

Program committees: ACM CHI 2015, ACM SUI 2014, Web3D 2014, IEEE VR 2013, 2011, Eurographics Short papers 2011, ACM Siggraph Asia 2010, Eurographics 2008, 2009, IEEE 3DUI 2007, 2008, 2009, 2010, ISVC 2009, 2010, ACM VRST 2008, VRIC 2008, IPT/EGVE 2007.

Guest editor: IEEE Transaction on Visualization and Computer Graphics (vol. 16, no. 1) 2010.

Expertise: ANR (National Research Agency) CONTINT 2011 Evaluation committee, ANR "programme Blanc SIMI 2" (2011) and "programme blanc internationaux" (2010), National Competitivity Cluster OPTITEC (2009, 2010) , Inria associate team program (2010), Crédit Impot Recherche (2011 - 2015)

Local activities: Elected member of INRIA Bordeaux Centre Committee (since 2008), Technological Development Committee (2008-2011), "Jeunes chercheurs" Committee (2011-2015)

Recruitment committees: CR2 Inria (2013-2016), MCF Univ. Bordeaux (2013). MCF Univ. Rennes (2011).

Advising, PhD committees and teaching

PhD Students: Julia Chatain (since 2015). Joan Sol Roo (Since 2014), Camille Jeunet (Since 2013), Renaud Gervais (2012-2015), Jérémy Frey (2012-2015), Jérémy Laviolle (2010-2013), Aurélie Cohé (2009-2012), Florent Berthaut (2007-2010), Sébastien Knoedel (2006-2009), Fabrice Dècle (2006-2009)

Postdocs: D. Furio (since 2014), J. Jankowski (2012-2014), F. Larrue (2012-2014).

Master Theses: M. Duluc, J. Chatain, J. Bui-Quang, D. Clergeaud: P.-M. Plans, T. Hume, J. Aceituno, A. Kian, O. Augerau, S. Hurel, P. Rouanet, F. Berthaut, R. Ducom, F. Dècle.

Engineers: B. Coulais, R. Gourdel, J. Laviolle, F. Ben Guefrech, T. Hulin, P. Davignon B. Bossavit, F. Dècle, M. Amyra, C. Kervegant, J. Hadim, C. Periet, F. Duga

External PhD Juries with report: William Delamarre, Univ. Grenoble, 2015. Jonhatan Mercier, INSA Rennes, 2015. Thi Thuong Huyen Nguyen, INSA de Rennes, 2014. Jérémy Gilliot, Univ. Lille 1, 2014. Mahmoud Haydard, University d'Evry Val d'Essonne, 2011.

Other external PhD Juries: Remi Brouet, Inria/LJK, 2015. Emmanuelle Chapoulie, Inria Sophia, 2014. Yosra Rekik, Univ. Lille, 1 2014. Prashant Arvind-Pala, Univ. Bordeaux Segalen, 2013. Laurent Georges, INSA de Rennes, 2012. Florian Larrue, Université Bordeaux 2, 2011. Anthony Martinet, Université de Lille 1, 2011. Sébastien Hilaire, INSA de Rennes, 2011. Laurent Aguerreche, INSA de Rennes, 2010.

Teaching: Teaching in the field of Virtual reality and HCI (Univ. Bordeaux, Bordeaux INP)

Leadership and projects

Team leader: Potioc - Inria project-team - <https://team.inria.fr/potioc>

Project leader: ISAR (2014-2017) ANR - <https://project.inria.fr/isar/>

HOBIT (2014-2015) Idex Bordeaux - <https://team.inria.fr/potioc/fr/2015/06/30/hobit-hybrid-optical-bench-for-innovative-teaching/>

InSTInCT (2009-2012) ANR - <http://anr-instinct.cap-sciences.net>

Scientific leader for the team : *Villes transparentes* (2012-2014), PIA. *SimCA* (2011-2013) FUI-AerospaceValley, *Part@ge* (2007-2010) ANR. *Dalia* (2007-2010) ANR.

Publications and dissemination

Author of more than 75 scientific publications. See full list at <http://people.bordeaux.inria.fr/hachet/>

Patent : *Toucheo* - Joint patent Inria-Immersion

Active participation to popularization of Science

Representative publications:

Martin Hachet, Jean-Baptiste De La Rivière, Jérémy Laviolle, Aurélie Cohé, Sebastien Cursan, [Touch-Based Interfaces for Interacting with 3D Content in Public Exhibitions](#). *IEEE Computer Graphics and Applications*, 2013, 33 (2).

Description : This paper describes the experiments we did for enhancing user experience in a scientific museum.

Martin Hachet, Fabrice Dècle, Sebastian Knoedel, Pascal Guitton. [Navidget for 3D Interaction: Camera Positioning and Further Uses](#). *International Journal of Human-Computer Studies*, Elsevier, 2008

Description: This paper is representative of a 3D UI designed for touchscreens. **Best paper award** at 3DUI2008.

Martin hachet, Benoit Bossavit, Aurelie Cohe, Jean-Baptiste de la Riviere. [Toucheo: Mul- titouch and Stereo Combined in a Seamless Workspace](#). UIST 2011, ACM Symp. on User Interface Software and Technology, Oct 2011.

Description: New system that is available commercially, and that is currently used in the Cap Science museum.

Jeremy Frey, Renaud Gervais, Stephanie Fleck, Fabien Lotte, Martin Hachet. [Teegi: Tangible EEG Interface, in: UIST 2014](#), ACM User Interface Software and Technology Symposium, ACM, October 2014.

Description: Representative of Potioc: engaging interface for understanding complex phenomena.

Martin Hachet, Pascal Guitton, Patrick Reuter, F. Tyndiuk. [The CAT for efficient 2D and 3D interaction as an alternative to mouse adaptations](#). VRST 03. *ACM Virtual Reality Software and Technology*, 2003. **Best paper award**

Description: New 6DOF input device for interaction in Virtual Reality.