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Employment and education

- Since July 2017 Director of Inria's [Bordeaux - Sud-Ouest](#) research center
- Sept. 2009 - July 2017 *Directeur de recherche* (senior researcher) at Inria's [Lille - Nord Europe](#) research center
Founding member of the Mint project-team (Sept. 2009 - Dec. 2014) then scientific head of the [Mjolnir](#) team (Jan. 2015 - June 2017)
Adjunct scientific officer (July 2013 - July 2014) then [scientific officer](#) of the research center (July 2014 - June 2017)
- Sept. 2001 - Sept. 2009 *Maître de conférences* (associate professor) in Computer Science at [Université Paris-Sud](#)
Founding member of the [InSitu](#) project-team, on secondment to Inria from September 2005 to September 2007
Habilitation à diriger des recherches ([habilitation](#) degree) in Dec. 2007
- Sept. 2000 - June 2001 [ERCIM](#) post-doctoral fellow at the University of Fribourg (SIDE group)
- Dec. 1999 - Aug. 2000 [ERCIM](#) post-doctoral fellow at GMD Sankt Augustin (FIT.MMK group)
- Dec. 1996 - Dec. 1999 PhD in Computer Science at Université Paris-Sud, under the supervision of [Michel Beaudouin-Lafon](#) (defended 17/07/2000)
- Oct. 1995 - Jul. 1996 Military service at the *Centre d'Etudes et de Développements Informatiques du Matériel de l'Armée de Terre* (CEDIMAT)
- Sept. 1990 - Sept. 1995 *DUT* (technical diploma), *Licence* (bachelor's degree), *Maitrise* (master's degree) and *DEA* (postgraduate research degree) in Computer Science at Université Paris-Sud

Research activities

My research interests are in [Human-Computer Interaction](#) (HCI). Over the last 20 years, I have collaborated with researchers in Electronics, Automatic Control, Computer Science, Psychology, Sociology and Design as well as artists on the following topics: video-mediated communication (1995 - 2009), graphical interaction in "desktop" environments (since 2000), preprocessing of human input in interactive systems (since 2010), tactile and gestural interaction (since 2010), brain-computer interfaces (since 2013), and animated transitions in information visualizations (since 2014). Our results have been published in conferences and journals such as [ACM CHI](#), [ACM UIST](#), [IHM](#), [ACM CSCW](#), [ECSCW](#), [ACM Multimedia](#), [IJHCS](#), [Frontiers in Neuroscience](#), [Brain-Computer Interfaces](#) and [IEEE Multimedia](#).

I have developed a number of [interactive software and systems](#) as part of or alongside my research activities, including [libpointing](#) (to replicate and compare pointing transfer functions), the [1€ filter](#) (for noisy interactive input), [Metisse](#) (an experimental X Window system), and [núcleo](#) (to explore new uses of video).

I have participated in 23 research projects or contracts (4 international, 9 national, 3 bilateral contracts, 7 local), 10 times as (co-)principal investigator. I have supervised 3 post-docs, 10 PhD students, 6 research engineers and a dozen Master's students.

Teaching and science popularization

From Sept. 2001 to Sept. 2009, as an associate professor at Université Paris-Sud, I created and taught undergraduate and graduate courses in HCI, Computer Graphics and Computer-Mediated Communication (about 200 hours per year, except during my secondment to Inria). I also taught similar courses at the Pasteur Institute (Paris), the Burgundy School of Business and the University of Burgundy (Dijon). From Sept. 2009 to June 2017, I only taught a few undergraduate and graduate courses in HCI and Algorithms and Programming at Université Lille 1 and Centrale Lille.

I am regularly involved in [science popularization actions](#) directed at various audiences, e.g. students and teachers, researchers from other fields, journalists, local and regional authorities, economic players or the

general public. Between 2010 and 2016, I co-organized four editions of the [Forum on Tactile and Gestural Interaction](#) and one Inria - Industry meeting on ["Interaction with digital objects and services"](#), with over 200 participants each time.

Professional service

I am a member of Inria's [management team](#) and the director of its Bordeaux - Sud-Ouest research center with 340 people (200 paid by Inria) working in 8 support services and 21 research teams.

I serve on the board of directors (*conseil d'administration*) of the [Aerospace Valley](#) and [Alpha-RLH](#) competitiveness clusters, of [Digital Aquitaine](#), [Cap Sciences](#) and [CATIE](#). I previously served on the scientific board of the [Picom](#) competitiveness cluster (Nov. 2013 - June 2017), Inria's evaluation committee (June 2013 - June 2017) and the board of directors of [AFIHM](#), the french-speaking association on HCI (Sept. 2001 - Nov. 2003, Oct. 2009 - Oct. 2013).

I served as organizing or program committee member for conferences such as [CHI](#), [UIST](#), [Multimedia](#), [EICS](#) and [CSCW](#) (ACM), [ECSCW](#) (EUSSET), [Interact](#) (IFIP), and [IHM](#) (AFIHM). I regularly review papers for these conferences and others and have also reviewed for [Interacting with Computers](#) (Oxford University Press), [ACM ToCHI](#), [Human Computer Interaction](#) (Taylor & Francis) or [Computer](#) (IEEE).

I participated in the evaluation of four French research labs ([LIG](#), [LCOMS](#), [L3I](#) et [STMS](#)) and served as an expert for national and foreign agencies such as [ANR](#), [ANRT](#), the Aquitaine and Nord - Pas de Calais regions, [CAPES-COFEUCUB](#) (Brazil-France), [EPSRC](#) (UK) and the [Hasler Foundation](#) (Switzerland). I served on 21 PhD or Habilitation committees, 11 times as reviewer. I participated in 15 hiring committees for Inria or French universities or engineering schools (Paris-Sud, Lille 1, Toulouse, UTT, ENAC).

Honors

Best paper awards from [IHM 2010](#) and [IHM 2014](#), honorable mentions from [CHI 2011](#) and [CHI 2016](#), second best demonstration award from [UIST 2011](#), nomination for the best demonstration award at [Haptics Symposium 2012](#). 5-stars label from STMicroelectronics's Core Innovation Team (Crolles & Grenoble) in 2011. Special recognitions for reviewing from [CHI 2005](#), [UIST 2012](#) and [CHI 2017](#).

Selected publications

J. Aceituno, S. Malacria, P. Quinn, N. Roussel, A. Cockburn & G. Casiez. ["The design, use, and performance of edge-scrolling techniques"](#). *International Journal of Human-Computer Studies*, 97:58-76, January 2017.

A. Evain, N. Roussel, G. Casiez, F. Argelaguet-Sanz & A. Lécuyer. ["Interfaces cerveau-ordinateur pour l'interaction Homme-Machine"](#). In M. Clerc, L. Bougrain & F. Lotte, editors, *Les interfaces cerveau-ordinateur : fondements et méthodes*, chapter 12, p. 259-276, ISTE, Juillet 2016.

G. Casiez, S. Conversy, M. Falce, S. Huot & N. Roussel. ["Looking through the eye of the mouse: a simple method for measuring end-to-end latency using an optical mouse"](#). In *Proceedings of UIST'15*, p. 629-636, November 2015. ACM.

J. Aceituno & N. Roussel. ["Douglas Engelbart, inventeur et visionnaire"](#). *Bulletin de la Société Informatique de France*, (2):153-164, Janvier 2014.

N. Roussel, G. Casiez, J. Aceituno & D. Vogel. ["Giving a hand to the eyes: leveraging input accuracy for subpixel interaction"](#). In *Proceedings of UIST'12*, p. 351-358, October 2012. ACM.

G. Casiez & N. Roussel. ["No more bricolage! Methods and tools to characterize, replicate and compare pointing transfer functions"](#). In *Proceedings of UIST'11*, p. 603-614, October 2011. ACM.

N. Roussel & S. Gueddana. ["Beyond "Beyond being there": towards multiscale communication systems"](#). In *Proceedings of Multimedia'07*, p. 238-246, September 2007. ACM.

W. Stürzlinger, O. Chapuis, D. Phillips & N. Roussel. ["User interface façades: towards fully adaptable user interfaces"](#). In *Proceedings of UIST'06*, p. 309-318, October 2006. ACM.

O. Chapuis & N. Roussel. ["Metisse is not a 3D desktop!"](#) In *Proceedings of UIST'05*, p. 13-22, October 2005. ACM.

H. Hutchinson, W. Mackay, B. Westerlund, B. Bederson, A. Druin, C. Plaisant, M. Beaudouin-Lafon, S. Conversy, H. Evans, H. Hansen, N. Roussel, B. Eiderbäck, S. Lindquist & Y. Sundblad. ["Technology probes: inspiring design for and with families"](#). In *Proceedings of CHI'03*, p. 17-24, April 2003. ACM.

The complete list of my publications as well as videos illustrating most of my research works are available from [my web page](#).