

# Emmanuel Pietriga, Ph.D.

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**Phone:** +33-1-69-15-34-66  
**Nationality:** French  
**Date of birth:** November 30th, 1976  
**Marital status:** married, 2 children

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## Current Position

Since October  
2004

### **Experienced Research Scientist (Chargé de Recherche), INRIA (Institut National de Recherche en Informatique et en Automatique)**

Since Jan. 2007: CR1  
Oct. 2004 - Dec. 2006:  
CR2

Research team / EPI: **In Situ**

INRIA Saclay - Île-de-France / Laboratoire de Recherche en Informatique (Université Paris-Sud & CNRS)  
Orsay, France

Since August 2010: **interim team leader** (*responsable par interim*) of EPI In Situ (\*)  
January - July 2010: deputy team leader (*responsable permanent*) of EPI In Situ (\*)

(\*) EPI In Situ: average of 8 faculty members, 3 postdocs, 3 engineers, 6 PhD students

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## Working Experience

December 2002 -  
August 2003

### **Postdoctorate Fellow, MIT (Massachusetts Institute of Technology) / W3C (World Wide Web Consortium)**

*Visual transformation of Semantic Web data represented as node-link diagrams*

Member of the Semantic Web Advanced Development team, World Wide Web Consortium (W3C) and of the Decentralized Information Group at MIT CSAIL.  
Boston, MA, USA

September 2003 -  
September 2004

### **Software Engineer, Nuxeo**

*Development of Web-based enterprise content management applications (Python, Zope, CPS)*  
Paris, France

March 1999 -  
September 2002

### **Research Engineer, Xerox Research Centre Europe**

*Development of a zoomable user interface toolkit and a visual language environment for XML document transformations*  
CIFRE Ph.D. contract funded by ANRT  
Grenoble, France

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## Education

1999-2002

### **Ph.D. in Computer Science, INPG (Institut National Polytechnique de Grenoble)**

*Visual programming languages and environments applied to structured document processing*  
Xerox Research Centre Europe / INRIA Rhône-Alpes (research team Opéra)  
Grenoble, France  
Advisors: Vincent Quint and Jean-Yves Vion-Dury

1996-1999

### **Engineering Degree in Computer Science and Control, ESIA (Ecole Supérieure d'Ingénieurs d'Annecy)**

*Computer Science, control (automation, electronics), mechanics*  
Section A2I: Automatique et Informatique Industrielle  
Annecy, France

1998-1999

### **DEA (equivalent to a M.Sc.) in Computer Science, Université de Savoie**






*Distributed Systems (communicating objects, process algebra)*  
Internship at Xerox Research Centre Europe  
Annecy and Grenoble, France

## Short-Term Visits




- December 2010, June 2011 **ALMA (Atacama Large Millimeter/submillimeter Array), ESO (European Southern Observatory)**  
*Visiting Scientist on issues related to Human-Computer Interaction for the ALMA radio-telescope Chajnantor plateau, Chilean Andes, Chile*
- March 2011 **Expanded Very Large Array, NRAO (National Radio Astronomy Observatory)**  
*Visiting Scientist on issues related to Human-Computer Interaction for the ALMA radio-telescope Socorro, NM, USA*
- February 2011 **JAIST (Japan Advanced Institute of Science and Technology)**  
*Collaboration on an interactive graph visualization project Nomi, Ishikawa, Japan*
- November 2010 **SKA (Square Kilometer Array) South Africa**  
*Visiting Scientist on issues related to Human-Computer Interaction for the MeerKAT radio-telescope Cape Town, South Africa*
- December 2009 **ALMA (Atacama Large Millimeter/submillimeter Array) and VLT (Very Large Telescope), ESO (European Southern Observatory)**  
*Visiting Scientist on issues related to Human-Computer Interaction for the ALMA radio-telescope Chajnantor plateau (ALMA) and Mount Paranal (VLT), Chilean Andes, Chile*
- September 2001 - January 2002 **MIT (Massachusetts Institute of Technology) / W3C (World Wide Web Consortium)**  
*Visiting Scientist - Multi-scale Visualization of Semantic Web data represented as node-link diagrams Boston, MA, USA*

## Publications

















Click on one of the icons to get the document (multiple icons indicate multiple sources)

























 (ACM Digital Library)  IEEE (IEEE Xplore)  (IEEE Computer Society Digital Library)  SpringerLink (Springer Link)  (HAL-INRIA Open Archive)

### Refereed Papers in International Journals




- J. Zhao, F. Chevalier, E. Pietriga, R. Balakrishnan, **Exploratory Analysis of Time-series with ChronoLenses**, *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 10 pages, October 2011 **To appear**
- E. Pietriga, O. Bau, C. Appert, **Representation-Independent In-Place Magnification with Sigma Lenses**, *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, Volume 16, Issue 3, pages 455-467, May/June 2010   

### Refereed Papers in International Conference Proceedings



- E. Pietriga, S. Huot, M. Nancel, R. Primet, **Rapid Development of User Interfaces on Cluster-Driven Wall Displays with jBricks**, *EICS '11: Proceedings of the 3rd ACM SIGCHI symposium on Engineering interactive computing systems*, pages 185-190, June 2011, Pisa, Italy  
-  M. Nancel, J. Wagner, E. Pietriga, O. Chapuis, W. Mackay, **Mid-air Pan-and-Zoom on Wall-sized Displays**, *CHI '11: Proceedings of the 29th ACM SIGCHI conference on Human Factors in computing systems*, pages 177-186, ACM Press, May 2011, Vancouver, Canada  
- B. Bach, E. Pietriga, I. Liccardi, G. Legostaev, **OntoTrix: A Hybrid Visualization for Populated Ontologies**, *WWW '11: Proceedings of the 20th international conference companion on World wide web*, pages 177-180, ACM Press, March 2011, Hyderabad, India  
- C. Appert, O. Chapuis, E. Pietriga, **High-precision Magnification Lenses**, *CHI '10: Proceedings of the 28th ACM SIGCHI conference on Human Factors in computing systems*, pages 273-282, ACM Press, April 2010, Atlanta, USA  
-  O. Chapuis, J.-B. Labrune, E. Pietriga, **DynaSpot: Speed-Dependent Area Cursor**, *CHI '09: Proceedings of the 27th ACM SIGCHI conference on Human Factors in computing systems*, pages 1391-1400, ACM Press, April 2009, Boston, USA  
- T. Moscovich, F. Chevalier, N. Henry, E. Pietriga, J.-D. Fekete, **Topology-Aware Navigation in Large Networks**, *CHI '09: Proceedings of the 27th ACM SIGCHI conference on Human Factors in computing systems*, pages 2319-2328, ACM Press, April 2009, Boston, USA  
- E. Pietriga, C. Appert, **Sigma Lenses: Focus-Context Transitions Combining Space, Time and Translucence**, *CHI '08: Proceedings of the 26th ACM SIGCHI conference on Human Factors in computing systems*, pages 1343-1352, ACM Press, April 2008, Florence, Italy  

- E. Pietriga, C. Appert, M. Beaudouin-Lafon, **Pointing and Beyond: an Operationalization and Preliminary Evaluation of Multi-scale Searching**, *CHI '07: Proceedings of the 25th ACM SIGCHI conference on Human Factors in computing systems*, pages 1215-1224, ACM Press, April 2007, San Jose, CA, USA   
- E. Pietriga, C. Bizer, D. Karger, R. Lee, **Fresnel: A Browser-Independent Presentation Vocabulary for RDF**, *Lecture Notes in Computer Science (LNCS 4273), Proceedings of the 5th International Semantic Web Conference (ISWC 2006)*, pages 158-171, Springer, November 2006, Athens, GA, USA 
- E. Pietriga, **Semantic Web Data Visualization with Graph Style Sheets**, *Proceedings of the ACM Symposium on Software Visualization (SoftVis'06)*, pages 177-178, ACM Press, September 2006, Brighton, UK   
- S. Cohen-Boulakia, C. Froidevaux, E. Pietriga, **Selecting Biological Data Sources and Tools with XPR, a Path Language for RDF**, *Pacific Symposium on Biocomputing (PSB), Session Semantic Webs for Life Sciences*, pages 116-127, January 2006, Maui, Hawaii, USA  
- E. Pietriga, **A Toolkit for Addressing HCI Issues in Visual Language Environments**, *IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC'05)*, pages 145-152, IEEE Computer Society, September 2005, Dallas, TX, USA   
- J.-Y. Vion-Dury, V. Lux and E. Pietriga, **Experimenting with the Circus language for XML modeling and transformation**, *ACM Symposium on Document Engineering*, pages 82-87, ACM Press, November 2002, Mc Lean (VA), USA   
- E. Pietriga, V. Quint and J.-Y. Vion-Dury, **VXT: A Visual Approach to XML Transformations**, *ACM Symposium on Document Engineering*, pages 1-10, ACM Press, November 2001, Atlanta, USA   
- E. Pietriga and J.-Y. Vion-Dury, **VXT: Visual XML Transformer**, *IEEE Symposium on Human Centric Computing*, pages 404-405, IEEE Computer Society, September 2001, Stresa, Italy   
- J.-Y. Vion-Dury and E. Pietriga, **A Formal Study of a Visual Language for Document Type Definitions**, *IEEE Symposium on Visual Languages and Formal Methods (HCC)*, pages 52-59, IEEE Computer Society, September 2001, Stresa, Italy   





## Proceedings Editing

- Christopher Hundhausen, E. Pietriga, P. Diaz, M. B. Rosson, *Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10)*, 276 pages, September 2010   



## Refereed Papers in National Journals

- E. Pietriga, R. Lee, **Langages et outils pour la visualisation et la manipulation de données du Web sémantique**, *Technique et Science Informatiques (TSI), Vol. 28(2), pages 173-197, March 2009, Hermès, Lavoisier*  





## Refereed Posters, Demos, Workshop Papers

- B. Bach, G. Legostaev, E. Pietriga, **Visualizing Populated Ontologies with OntoTrix**, *Proceedings of the ISWC 2010 Posters & Demonstrations Track: Collected Abstracts*, pages 85-88, November 2010, Shanghai, China  
- C. Bizer, R. Lee, E. Pietriga, **Fresnel: A Browser-Independent Presentation Vocabulary for RDF**, *Second International Workshop on Interaction Design and the Semantic Web*, November 2005, Galway, Ireland  

## Specialized Journals and Magazines (dissemination of scientific knowledge)

- M. Beaudoin-Lafon, E. Pietriga, W. Mackay, S. Huot, M. Nancel, C. Pillias, R. Primet, **131 millions de pixel qui font le mur**, *Plein Sud Spécial Recherche 2010-2011*, pages 140-147, 2011
- E. Pietriga, **Styling RDF Graphs with GSS**, *XML.com*, 3 december 2003  

## Other Publications

- M. Nancel, E. Pietriga, M. Beaudouin-Lafon **Precision Pointing for Ultra-High-Resolution Wall Displays**, *INRIA Research Report RR-7624*, May 2011 
- E. Pietriga, **Fresnel Selector Language for RDF (FSL)**, *Semantic Web Interest Group*, 18 November 2005 
- C. Bizer, R. Lee, E. Pietriga, **Fresnel - Display Vocabulary for RDF - User Manual**, *Semantic Web Interest Group*, 30 June 2005 
- E. Pietriga, **Environnements et langages de programmation visuels pour le traitement de documents structurés**, *Institut National Polytechnique de Grenoble (Ph.D. thesis)*, November 2002, Grenoble, France 

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## Talks

- E. Pietriga, **Making ALMA's Operations Monitoring & Control Graphical User Interfaces Scalable**, *Universidad de Chile*, June 2011, Chile

- E. Pietriga, **Interacting with Wall-sized Displays**, *IT University of Copenhagen*, June 2011, Denmark
- E. Pietriga, **HCI and Information Visualization Research Overview and its application to ALMA**, *National Radio Astronomy Observatory*, March 2011, Socorro, NM, USA
- J. Schwarz, E. Pietriga, M. Schilling, P. Grosbol, **Goodbye to WIMPs: A Scalable Interface for ALMA Operations**, *Astronomical Data Analysis Software and Systems (ADASS 2010)*, November 2010, Boston, USA
- P. Cubaud, E. Pietriga, **HCI and Information Visualization Research: an Overview**, *SKA South Africa*, November 2010, Cape Town, South Africa
- E. Pietriga, **HCI state-of-the-art and what it means for ALMA**, *European Southern Observatory*, March 2010, Garching, Germany
- E. Pietriga, **Visualisation interactive de données massives sur mur d'écran très haute résolution**, *Thales Research & Technology*, November 2009, France
- E. Pietriga, **WILD : une plate-forme pour la visualisation interactive de grandes masses de données scientifiques**, *Séminaire Apple Research and Technology Support (ARTS)*, November 2009, Paris, France
- E. Pietriga, **Visualisation et manipulation de données du Web sémantique**, *INRIA Sophia Antipolis*, October 2007, France
- E. Pietriga, **Semantic Web Technologies and Human-Computer Interaction Techniques applied to Bioinformatics**, *Universidad Politécnica de Valencia*, March 2006, Valencia, Spain
- W.E. Mackay and E. Pietriga, **Project In Situ + Presenting Semantic Web data**, *Xerox Research Centre Europe*, March 2005, Grenoble, France
- J. Kahan, M.-R. Koivunen, E. Pietriga, R. Swick, **Cross-Application Data Interaction: Shared Bookmarks and IsaViz**, *WWW 2003, the 12th World Wide Web Conference (Developer's day)*, May 2003, Budapest, Hungary
- E. Pietriga **IsaViz: a Visual Environment for Browsing and Authoring RDF Models**, *WWW 2002, the 11th World Wide Web Conference (Developer's day)*, May 2002, Hawaii, USA
- E. Pietriga, **Visual Languages and Interactive Architectures Applied to Structured Document Transformations**, *Oregon State University*, September 2000, Corvallis, OR, USA

## Funded Projects

- **WebContent - The Semantic Web Framework**, 2006-2009. 19 academic and industrial partners. Funded by the French National Research Agency (ANR), RNTL Plateforme: 58K€/2M€. *Role: principal investigator for partner INRIA/In Situ.*
- **WILD - Wall-sized Interaction with Large Datasets**, 2008-2011. 4 academic partners. Funded by RTRA Digiteo and Région Île-de-France, Domaine d'Intérêt Majeur "Logiciels et systèmes complexes": 429K€. *Role: coordinator/principal investigator.*
- **MLSN - Multi-Level Social Networks**, 2009-2012. 4 academic and industrial partners. Funded by the French National Research Agency (ANR), Programme VERSO: 177K€/738K€. *Role: principal investigator for partner INRIA/In Situ.*
- **HolyRisk - Scientific Uncertainty and Food Risk Regulation**, 2009-2013. 5 academic partners. Funded by the French National Research Agency (ANR), Programme BLANC: 61K€/702K€. *Role: principal investigator for partner INRIA/In Situ.*

## Evaluation of Research

### Journals

#### Editor

- Journal of Visual Languages and Computing (JVLC), Elsevier, 2011, Guest Editor, special issue on VL/HCC'10 best papers

#### Reviewer

- Software: Practice and Experience, Wiley, 2011
- IEEE Transactions on Visualization and Computer Graphics (TVCG), IEEE Computer Society, 2010, 2011
- Computers & Graphics, Elsevier, 2010
- IEEE Software - special issue on End-User Software Engineering, IEEE Computer Society, 2009
- Journal of the American Society for Information Science and Technology (JASIST), Wiley, 2008
- ACM Transactions on Computer-Human Interaction (ToCHI), ACM, 2007
- Data & Knowledge Engineering Journal, Elsevier, 2006
- Journal of Visual Languages and Computing (JVLC), Elsevier, 2006
- International Journal on Universal Access in the Information Society, Springer, 2005

### Conferences

#### Program Committee Chair

- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC'10), September 2010 (co-chair)

#### Program Committee Member

- 30th ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '12), Associate Chair, May 2012
- 21st International Conference on World Wide Web (WWW '12) - Tutorials, April 2012
- 23ième Conférence Francophone sur l'IHM - Workshop Interagir Avec Des Représentations Formelles, Octobre 2011
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '11), September 2011
- 29th ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '11), Associate Chair, May 2011
- Visual Information Communications International (VINCI '10), September 2010
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '09), September 2009
- Visual Information Communications International (VINCI '09), September 2009
- INTERACT 2009 - 12th IFIP TC13 Conference in Human-Computer Interaction, August 2009
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '08), September 2008
- ACM Symposium on Software Visualization (SoftVis '08), September 2008
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '07), September 2007
- Visual Interactions in Software Artifacts Mini-track in the Software Technology Track of HICSS-40, January 2007
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '06), September 2006
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '05), September 2005
- International Workshop on Multimedia and Web Design, December 2004

### Reviewer

- ACM CHI (Human Factors in Computing Systems) 2006 (WIP), 2007 (WIP), 2008 (Papers, Courses, WIP), 2009 (Papers), 2010 (Papers, WIP/SRC)
- ACM UIST (User Interface Software and Technology) 2005, 2007, 2008, 2009, 2011
- ACM CSCW (Computer Supported Cooperative Work) 2010, 2011, 2012
- ACM EICS (Engineering Interactive Computing Systems) 2011
- ACM IUI (Intelligent User Interfaces) 2010
- ACM ITS (Interactive Tabletops and Surfaces) 2011
- GI (Graphics Interface) 2011
- IEEE InfoVis 2009, 2010, 2011, IEEE VAST 2010, 2011, IEEE PacificVis 2009, IEEE Vis 2009
- Interact 2011
- IHM 2005, 2006, 2007, 2008, 2009, 2010

### Books

- CSS 2: Pratique du design Web by Raphael Goetter (Eyrolles), June 2005
- Several chapters of Practical RDF by Shelley Powers (O'Reilly), July 2003

### Evaluation committees and invited expertise

- Expert reviewer for the New Eurasia Foundation Russian Federation's call Measures to Attract Leading Scientists to Russian Educational Institutions, 2011
- Referee for the PDOC call, ANR (French National Research Agency), 2011
- Expert reviewer for an ongoing European Commission 7th Framework Programme project Strategic Objective 4.2: Intelligent Content and Semantics, 2010, 2011
- Evaluator for the SEE-ERA.NET PLUS Joint Call for European Research Projects, 2010
- Referee for the Marsden Fund, Royal Society of New Zealand, 2009
- Evaluator for European Commission's 7th Framework Programme FP7 ICT Call 3, Strategic Objective 4.2: Intelligent Content and Semantics (50 M€), 2008
- Evaluator for European Commission's 7th Framework Programme FP7 ICT Call 1, Strategic Objective 4.2: Intelligent Content and Semantics (51 M€), 2007
- Participant in the evaluation of a project for research theme MIS (Modélisation, Interaction, Simulation), CPER (Contrat de Projet Etat-Région) for Région Lorraine 2007

### PhD Jury Membership

- Shuo-Hsiu Hsu, Conservatoire National des Arts et Métiers, Paris (examiner - 2010)
- Arnaud Blouin, Université d'Angers (inspector - 2009)

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## Conference Organization

- Graduate Consortium: Expanding end user control in socio-technical systems (in conjunction with VL/HCC '11, funded by NSF), Pittsburgh, PA, USA, September 2011  
**Panelist and Submission Coordinator**
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10), Madrid, Spain, September

- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10), Madrid, Spain, September 2010  
**Program co-chair**
- Graduate Consortium: Democratizing Computational Tools (in conjunction with VL/HCC '10, funded by NSF), Madrid, Spain, September 2010  
**Panelist**
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '08), Herrsching am Ammersee, Germany, September 2008  
**Publicity chair**
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '07), Coeur d'Alène, ID, USA, September 2007  
**Publicity chair**

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## Software Writing and Distribution

- **ZVTM (Zoomable Visual Transformation Machine)** - <http://zvtm.sourceforge.net>  
*A Java2D-based zoomable user interface toolkit aimed at addressing Human-Computer Interaction issues in visual language environments and other types of advanced structured graphics editors.*
  - One of the most popular applications based on ZVTM is ZGRViewer, a graph viewer for AT&T GraphViz/DOT, hosted by the same project.
  - Open-source project (LGPL license) hosted by SourceForge, average of **966 downloads per month** over the last 12 months (total of about 50 571 downloads), not including Maven repository downloads. Cited by **30 research papers**. Numbers collected on 2010-07-21.
- **IsaViz** - <http://www.w3.org/2001/11/IsaViz/>  
*A visual authoring tool for RDF models represented as node-link diagrams, with support for GSS (Graph Stylesheets) and FSL (Fresnel Selector Language). IsaViz uses ZVTM to render RDF graphs in a multiscale interface.*
  - Open-source project (W3C license) hosted by W3C, average number of downloads not available, cited by **75 research papers**, approx. 26 000 results returned by a Google search. Numbers collected on 2010-07-21.
- **JFresnel** - <http://jffresnel.gforge.inria.fr/>  
*Fresnel is a presentation vocabulary for Semantic Web data designed to be application and representation paradigm independent. JFresnel is a Java library that implements the Fresnel specification for various RDF APIs, such as HP's Jena and Aduna's Sesame.*
  - Open-source project (LGPL license) hosted by InriaGforge, total number of 331 downloads, not including Maven repository downloads. Underlying research on Fresnel cited by **70 research papers**. Numbers collected on 2010-07-21.
  - Project with contributions from HP Laboratories Palo Alto, the Simile project at MIT, and Masaryk University.

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## Teaching / Consulting

- The Fresnel language, Semantic Web data presentation solutions  
To four senior consultants and software engineers, 2 days/16 hours, PCO Innovation, November 2008
- Information Visualization  
TD Master Pro, 12 hours, Université d'Orsay (Paris XI), January-February 2005
- The Python language, Zope and CPS  
To three software engineers, 2 days/16 hours, Cap Gemini Belgium, November 2003

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## Supervision of Research and Software Development Activities

- **Since August 2010:** interim team leader (*responsable par interim*) of EPI In Situ (\*)
- **January 2010 - July 2010:** deputy team leader (*responsable permanent*) of EPI In Situ (\*)  
  
(\*) EPI In Situ is an INRIA team joint with LRI (Université Paris-Sud and CNRS): average of 8 faculty members, 3 postdocs, 3 engineers, 6 PhD students
- Ph. D. student (co-advisor) - Bourse INRIA CORDI  
*Collaborative Visualization of Large Web-based Linked Datasets*  
Starting January 2011 (3 year funding)
- Ph. D. student (co-advisor) - Bourse MENRT  
*Adaptive Lenses: Content-aware Focus+Context Visualization*  
Started October 2010 (3 year funding)
- M.Sc. student (Universidad de la República, Uruguay) - Internship at INRIA for International Students  
*Adaptive Lenses: Content-aware Focus+Context Visualization*  
April to August 2010
- M.Sc. student (University of Technology Dresden, Germany) - Internship at INRIA for International Students  
*Visualization of OWL Semantic Web Ontologies with NodeTrix*  
November 2009 to March 2010
- Software engineer - INRIA Ingénieur Jeune Diplômé  
*Design and implementation of a ZUJST based multi-scale interface for navigating large digital libraries such as HAL*

*Design and implementation of a ZVTM-based multi-scale interface for navigating large digital libraries such as HAL-INRIA*

Since October 2009

- Software engineer - INRIA SED (Service d'Expérimentation et de Développement)  
*Adapting the ZVTM/ZUIST toolkit to work on computer clusters driving large wall-sized displays*  
Since March 2009
- Software engineer - Région Ile-de-France / Digiteo  
*Administration and development of the WILD visualization platform (wall-sized high-resolution display)*  
Since March 2009
- Ph. D. student (co-advisor) - Bourse Région Ile-de-France / Digiteo  
*Collaborative interaction with a high-resolution wall-sized visualization platform*  
Started October 2008 (3 year funding)
- Software engineer - ANR / RNTL  
*Development of interaction and information presentation components for the WebContent platform*  
October 2007 to September 2008
- M.Sc. student (St Petersburg State University, Russia) - Internship at INRIA for International Students  
*Visualization of OWL Semantic Web Ontology Graphs with Adjacency Matrices*  
October 2007 to March 2008
- M.Sc. student (St Petersburg State University, Russia) - Internship at INRIA for International Students  
*Development of a visual editor for OWL-PL ontologies*  
April to August 2007
- M. Eng. student (Master Pro, Université Orsay, Paris XI)  
*Improving Human-Computer Interaction in ZGRViewer, a 2.5D Graph Visualization Tool*  
April to September 2005
- Two M. Eng. students (DESS, Université Joseph Fourier, Grenoble I)  
*Modeling XML Schema Structural Constraints and Datatypes with Circus' Type System*  
February to September 2002

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## Collective Responsibilities

- **Chair** of ACM Local SIGCHI Chapter Paris  
Since May 2010
- IEEE VL/HCC, **Steering Committee member**, 2010-2014, **vice-chair** (2010-2011)
- **Member** (Feb 2008 - Feb 2009) then **President** (since March 2009) of INRIA Saclay - Île de France's Commission for Technological Development (CDT: Commission de Développement Technologique)
- **Member** of INRIA's working group on experimental platforms, representing INRIA Saclay  
Since October 2008
- **Member** of INRIA's working group on the 2nd generation of code forge  
Since March 2010
- **Member** of INRIA's commission nationale des ingénieurs spécialistes  
Since June 2009
- **Representative** of INRIA's personnel (représentant des utilisateurs), Digiteo Labs' architectural program  
2007-2008
- **Jury member** for INRIA's TR competitive selection process (research support positions, concours externe pour le recrutement d'ingénieurs et de personnels techniques)  
2006 (TR4)
- **Member** of INRIA Futurs' local commission evaluating proposals and applications for junior engineer positions (ingénieurs associés)  
2005-2007
- **Member** of the IziGFD working group (enabling INRIA personnel to access part of the GFD application)  
2005-2006
- **Elected member** of INRIA Futurs' CUR (Comité d'Unité de Recherche)  
December 2004 - December 2006

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## Prizes and Awards

- **Best paper award** at ACM CHI 2011 with Mathieu Nancel, Julie Wagner, Olivier Chapuis and Wendy Mackay for *Mid-air Pan-and-Zoom on Wall-sized Displays*.
- **Honorable mention** (Best paper award nominee) at ACM CHI 2009 with Olivier Chapuis and Jean-Baptiste Labrune for *DynaSpot: Speed-Dependent Area Cursor*.
- **PhD thesis prize (Prix de thèse) INPG** 2004, awarded on May 12th, 2005

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## Miscellaneous

- Spoken languages : French, English, Spanish (basics)