

Nathalie Henry

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University of Sydney
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Australia

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Current position

PhD in Computer Science started in October 2004

Navigation and Visualization of large social networks

Cotutelle France-Australia

INRIA Futurs & University of Paris-Sud (LRI), Orsay, France

University of Sydney, Sydney, Australia

Thesis supervisors : Dr. Jean-Daniel Fekete (France), Pr. Peter Eades(Australia)

Education

- 2003-2004 **Research Master in Computer Science**
Document, Images and Communicating Information Systems
University of Lyon1, National Institute of Applied Science (INSA), Lyon, France
- 2001-2004 **Engineer Diploma in Computer Science**
National Institute of Applied Science (INSA), Lyon, France
- 1999-2001 **Degree in Computer Science (DUT)**
University Institute of Technology, University of Paris-Sud, France
- 1998-1999 **First year in Computer Science (University Studies Diploma : DEUG)**
University of Paris-Sud, France
- 1998 **Bachelor Degree in Science**
Sens, France

Projects and Internships

- 2005 **Scientific Research Communication on Graphs Visualization**
Workshops with children, Design of an Interactive Device
Palais de la découverte (Interactive Museum in Technology and Science) Paris, France
- 2004 **Realistic Aging of 3D Natural Scenes**
Development of tools, using C++, QT and OpenGL, to alter synthetic forests
Research Master Internship
University of Lyon1, France
- 2003 **Living Pictures : Making a pictures population evolve.**
Bio-inspired Computer Science, Artificial Intelligence, Genetic Algorithms
<http://prisma.insa-lyon.fr/~livingpics>
Computer Science Engineering Project
National Institute of Applied Science, Lyon, France

- 2003 **Visual Langage Programmation**
Java3D and Neural Networks modules development integrated in JbeanStudio
<http://jbeanstudio.sourceforge.net>
Second year Engineering Internship
University of Sydney, Australia
- 2002 **Automatic Web Site Generation**
Java DOM, XML and Enhydra server
<http://www.buildyourcommunity.com>
First year Engineering Internship
Leader Of The Dot Inc., Baltimore, MD, United States of America
- 2001 **Design and Programmation of a Dynamic Web Site Section**
Analysis and Design using UML, Programmation using Php-MySQL
<http://soc.napier.edu.uk>
Degree Internship
Napier University, Edinburgh, Scotland

Publications

- 2008 **20 Years of four HCI conferences: A Visual Exploration.**
Nathalie Henry, Howard Goodell, Niklas Elmqvist, and Jean-Daniel Fekete
In *International Journal of Human-Computer Interaction*
Reflections on Human-Computer Interaction: A special issue in honor of Ben Shneidermans 60th birthday, 2008. to be published.
- 2007 **NodeTrix : Hybrid Representation for Analyzing Social Networks**
Nathalie Henry, Jean-Daniel Fekete and Michael McGuffin
In *IEEE Transactions on Visualization and Computer Graphics (Proceedings Visualization / Information Visualization 2007)*
[Acceptance rate 23%]
13(6):8, November-December 2007. to be published.
- MatLink : Enhanced Matrix Visualization for Analyzing Social Networks**
Nathalie Henry and Jean-Daniel Fekete
In *Proceedings of the 11th IFIC TC13 International Conference on Human-Computer Interaction (Interact'07). (Brian Shackel best paper award)*
[Acceptance rate 34% (76/223)]
Rio de Janeiro, Brazil, September 2007 (To appear)
- 2006 **MatrixExplorer : A Dual-Representation System to Explore Social Networks**
Nathalie Henry and Jean-Daniel Fekete
In *IEEE Transactions on Visualization and Computer Graphics (Proceedings of Infovis'06)*
[Acceptance rate 24% (24/104)]
Baltimore, MD, USA, October 2006
- Evaluating Visual Table Data Understanding**
Nathalie Henry and Jean-Daniel Fekete
In *Proceedings of BEyond time and errors: novel evaluation methods for Information Visualization. AVI'06 Workshop. Peered-reviewed. ACM Press.*
Venice, Italy, May 2006
- Task Taxonomy for Graph Visualization**
Catherine Plaisant, Bongshin Lee, Cynthia Sims Parr, Jean-Daniel Fekete and Nathalie Henry
In *Proceedings of BEyond time and errors: novel evaluation methods for Information Visualization. AVI'06 Workshop. Peered-reviewed. ACM Press.*

Venice, Italy, May 2006

MatrixExplorer : Un système pour l'analyse des réseaux sociaux

Nathalie Henry and Jean-Daniel Fekete

In Proceedings of the 18th French Speaking Conference on Human Computer Interaction (IHM'06).

International Conference Proceedings Series. ACM Press.

[Acceptance rate 41% (19/46)]

Montreal, Canada, April 2006

Research Activities

Reviewer for ACM UIST'07

Reviewer for IEEE Infovis'07

Reviewer for IEEE VAST'07

Reviewer for IEEE Infovis'06

2007 **Invited Talk: Helping social scientists to analyze their networks**

Microsoft Research, Redmond, WA, USA

Invited Talk: Exploring Social Networks using Matrix-Based Representations

Social Networks Analysis Workshop: Helping Users Make Sense of Social Networks

<http://www.cs.umd.edu/hcil/sna-workshop>

HCIL, University of Maryland, MD, USA

2006 **Student volunteer at Vis/Infovis/VAST'06**

Baltimore, MD, USA

2005 **Invited Talk: Exploratory Visualization of Graphs using Matrices**

Seminar on Graphic Representations of Networks

National Institute of Demographic Studies (INED), Paris, France

Invited Talk: Visualizing Social Networks using Matrices

Social Network Analysis and Visualization Workshop

Graph Drawing Conference (GD'05), Limerick, Ireland

2004 **Participation of the Information Visualization Summer School**

Computer Science Research Lab. of Bordeaux(LaBri), Bordeaux, France

2003 **Student Volunteer at AIED'03**

Artificial Intelligence in Education Conference

Sydney, Australia

Teaching Activities

2007 **EmailVis : an extension for Thunderbird**

Supervision of a 3 months Undergraduate Internship

EmailVis: Visualizing Email Flow

Undergraduate Final Project. Initiation to Information Visualization

48h project + full week, 14 students

<http://emailvis.sourceforge.net>

University Institute of Technology, University of Paris-Sud, France

2006 **Introduction to XML**

Undergraduate course, 13h

University Institute of Technology, University of Paris-Sud, France

Teaching Activities

- 2005-2006 **Introduction to Software Engineering: Philosophy and Methodologies.**
Adult Formation for SNCF employees (French National Railway Company)
5h (2005), 11h (2006)
University Institute of Technology, University of Paris-Sud, France
- 2004-2005 **Designing Information Systems with UML**
Undergraduate tutorials & practicals, 64h
University Institute of Technology, University of Paris-Sud, France
- 2002-2003 **Member of the association: Tomorrow Engineers?**
Presentation of our curriculum and career choices in high schools and fora
National Institute of Applied Science (INSA), Lyon, France

Hobbies

- Plastic Arts Acrylic Paintings & Charcoals
Member of the Plastic Arts Studies Department at INSA (3-year course)
- Music Piano for ~10 years
Cello for 4 months :-)
- Sport Horse Riding (english, american and australian style)
Skuba Diving, PADI Advanced Diver certification