

Fanny Chevalier

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Nationality: French
Languages: French and English
Date of birth: April 3rd, 1981
Marital status: Single, no child

Education

- 2004-2007 **Ph.D. in Computer Science, LaBRI (Laboratoire Bordelais de Recherche en Informatique)**
Recognition of Quasi-Similar Patterns in Graphs: Heuristic and Applications
INRIA Bordeaux (research project-team Gravit )
Bordeaux, France
Advisors: Professor Maylis Delest and Professor Jean-Philippe Domenger
- 2003-2004 **DEA (equivalent to a M.Sc.) in Computer Science (Multimedia), Universit  de Bordeaux 1**
Object Recognition in very Low-resolution Video
Internship at LaBRI (Laboratoire Bordelais de Recherche en Informatique)
Bordeaux, France
Advisor: Professor Jenny Benois-Pineau

Experience

- 2010-present **Postdoctoral Fellow, Ontario College of Art and Design University**
Information Visualization, Data-Driven Design, Text mining
Advisor: President Sara Diamond
- 2008-2010 **Postdoctoral Fellow, Microsoft-INRIA Joint Center**
Interactive Visual Interfaces, Information Visualization and Human-Computer Interaction techniques
INRIA Saclay (research project-team Aviz)
Advisor: Professor Jean-Daniel Fekete
- 2007-2008 **Attach  Temporaire d'Enseignement et de Recherche (equivalent to Teaching Assistant), University Institutes for Technology, Universit  Bordeaux 1**
Visualization of evolving data
INRIA Bordeaux (research project-team Gravit )
Universit  Bordeaux 1
- 2004-2007 **Ph.D. applicant, LaBRI (Laboratoire Bordelais de Recherche en Informatique)**
Graph comparison, content-based image/video retrieval, visualization of evolving data
Universit  Bordeaux 1

Publications

[see details page 2](#)

Refereed Papers in International Journals – 3 papers
Refereed Papers in International Conference Proceedings – 5 full papers, 1 short paper
Refereed Papers in International Workshops / French-speaking Conference – 4 full papers
Press – 1 radio interview

Teaching

[see details page 3](#)

Lecturer / Teaching Assistant – 30h lectures, 200h guided class
Invited Guest Lecturer – 3h lecture
Animator at the Science Fair – 1 full day awareness campaign for youth and the public in general

Public talks

[see details page 4](#)

Invited talks – 1 keynote, 1 panel, 1 seminar, 1 guest lecturer
Workshop leading – 1 day workshop

Collective Responsibilities

[see details page 4](#)

Committee Program – 1 international conference, 1 international workshop
Seminar Organization – 1 co-founder and organizer
Paper Reviewing – 4 journals, 3 international conferences

Refereed Papers in International Journals

- [J3-C5*] A. Bezerianos, F. Chevalier, P. Dragicevic, N. Elmqvist and J.D. Fekete **GraphDice: A System for Exploring Multivariate Social Networks** *In Computer Graphics Forum (Proc. EuroVis 2010)*, 29(3):863-872, 2010 [Acceptance rate : 29%]
- [J2] F. Chevalier, M. Delest and J.P. Domenger **A heuristic for the retrieval of objects in video in the framework of the rough indexing paradigm** *Signal Processing: Image Communication (SPIC)*, 22:622-634, 2007
- [J1] F. Chevalier, J.P. Domenger, J. Benois-Pineau and M. Delest **Retrieval of objects in video by similarity based on graph matching** *Pattern Recognition Letter*, 28(8):939-949 - Jun 2007

Refereed Full-Length Papers in International Conference Proceedings

- [C2] N. Boukelifa, F. Chevalier and J.D. Fekete **Real-time Aggregation of Wikipedia Data for Visual Analytics** *VAST'10: Proceedings of the 2010 IEEE Symposium on Visual Analytics Science and Technology*, pp. 147-154, Oct. 2010 [Acceptance rate : 22%]
- [C3] N. Riche, B. Lee and F. Chevalier **iChase: Supporting Exploration and Awareness of Editing Activities on Wikipedia** *AVI '10: Proceedings of AVI 2010*, pp. 59-66, May 2010.
- [C4*] F. Chevalier, P. Dragicevic, A. Bezerianos and J.D. Fekete **Using Text Animated Transitions to Support Navigation in Document Histories** *CHI '10: Proceedings of the SIGCHI conference on Human Factors in computing systems*, pp. 683-692, April 2010 [Acceptance rate : 22%]
- [C5*] F. Chevalier, S. Huot and J.D. Fekete **WikipediaViz: Conveying Article Quality for Casual Wikipedia Readers** *PacificVis'10: Proceedings of the IEEE Pacific Visualization Symposium*, pp. 49-56, March 2010. [Acceptance rate : 31%]
- [C6*] T. Moscovich, F. Chevalier, N. Henry, E. Pietriga and J.D. Fekete **Topology-Aware Navigation in Large Networks** *CHI '09: Proceedings of the SIGCHI conference on Human Factors in computing systems*, pp. 2319-2328, April 2009. [Acceptance rate : 24%]

Refereed Short-Length Papers and Extended Abstracts in International Conference Proceedings

- [S1*] F. Chevalier and S. Diamond **The Use of Real Data in Fine Arts for Insight and Discovery: Case Studies in Text Analysis** *IEEE VisWeek 2010 Discovery Exhibition*, Oct. 2010 (4 pages + poster).

Refereed Papers in International Workshops

- [W2] F. Chevalier, D. Auber and A. Telea **Structural Analysis and Visualization of C++ Code Evolution using Syntax Trees** *IWPSE '07: Proceedings of the International Workshop on Principles of Software Evolution*, pp. 90-97, 2007 [Acceptance rate : 23%]
- [W1*] F. Chevalier, M. Delest and J.P. Domenger **A heuristic for the retrieval of objects in low resolution video** *CBMI '07: Proceedings of International Workshop on Content-Based Multimedia Indexing*, pp. 144-151, 2007, **Best student paper award** [Acceptance rate: 22%]

Refereed Papers in International French-speaking Conference Proceedings

- [F2*] F. Chevalier, S. Huot and J.D. Fekete **Visualisations de mesures agrégées pour l'estimation de la qualité des articles Wikipedia** *EGC'10 : Actes de la Conférence Internationale Francophone en Extraction et Gestion des Connaissances*, pp. 351-362, Jan. 2010. [Acceptance rate : 23%]
- [F1*] F. Chevalier, M. Delest and J.P. Domenger **Recherche de motifs quasi-similaires dans des graphes** *EGC '08: Extraction et Gestion des Connaissances - Actes de l'Atelier Visualisation et extraction de connaissances*, pp. 1-14, 2008.

Other Publications

- [Thesis] F. Chevalier **Reconnaissance de motifs quasi-similaires dans des graphes : heuristique et applications** *PhD thesis, Université Bordeaux 1, 2007 (in French)*

Press

I have been interviewed by France Info (Info Science) on graph navigation techniques
<http://www.aviz.fr/audio/fanny-franceinfo.mp3> (in French)

Teaching Experience

Lecturer / Teaching Assistant University Institutes for Technology, Dep. Of Computer Sciences, Bordeaux, France

Computer Graphics (2006-2008) – Instructor (*)

10h lecture + 10h guided class, 3rd year Undergraduate (Licence spe. Multimedia)

12h lecture + 12h guided class, 2nd year Undergraduate (2nd year Diploma of higher education)

Advanced databases (2006-2007) – Teaching Assistant

32h guided class, 2nd year Undergraduate (2nd year Diploma of higher education)

Graphs and algorithms (2005-2007) – Instructor (*)

8h lecture + 16h guided class, 2nd year Undergraduate (2nd year Diploma of higher education)

Initiation to algorithmic and programming (2004-2006) – Teaching Assistant

130h guided class, 1st year Undergraduate (1st year Diploma of higher education)

(*) As instructor for the above courses, I had complete responsibility for all aspects of the courses. This included preparing and delivering lectures, setting and grading assignments and examinations, and maintaining course material and website.

As a *Monitrice de l'Enseignement Supérieur* 2004-2007 (equivalent to **Lecturer**), and *Attachée Temporaire d'Enseignement et de Recherche* 2007-2008 (equivalent to **Teaching Assistant**) at the Department of Computer Sciences at the University Institutes for Technology, I took active part of the discussions about the student hiring process as well as course restructuring. I was also involved in the creation of the Professional License in Multimedia, and was one of the pioneer instructors of the new program.

Invited Guest Lecturer (June 2010)

Ontario College of Art and Design University, Toronto, Ontario

Animated Transition in Information Visualization

3h lecture, in the GDES 3B91 "Special Topic: Introduction To Data Visualization"

Public: all year Undergraduate students in art and design.

Science Fair Animator (Dec. 2008)

Université Paris Sud, France

Awareness campaign for youth and the general public – Visualizing Harry Potter's social network

One full day of activities and games surrounding the social network of Harry Potter: Manipulation of tangible graphs, use of collocated-collaborative network visualization tool on a large display [1].

Public: 8 to 12 years old kids, and general public.

Additional Teaching Experience (2004-2006)

Université Bordeaux 1, France

As a *Moniteur de l'Enseignement Supérieur* (selected on the basis of record of achievement at school, admission rate 20% [2/10]), I received a Teaching Assistants' Training Program Certificate in 2006 after attending a series of seminars at the Centre of Introduction to Undergraduate Teaching (*Centre d'Initiation pour l'Enseignement Supérieur*), Bordeaux.

Mentoring Student Experience

Students working in research projects under my direction:

- Jian Zhao (PhD student at the DGP, supervisor: Ravin Balakrishnan, Fall 2010) ran participatory design sessions, implemented a prototype and ran a usability study (qualitative) to test an interactive visual interface for time-series data.

[1] P. Isenberg et al. **CoCoNutTriX: Collaborative Retrofitting for Information Visualization**. Computer Graphics and Applications: Special Issue on Collaborative Visualization, 29(5):44–57, September/October 2009.

Public talks

(These do not include some 10-15 semi-formal talks and demos given internally to INRIA Bordeaux and Paris, OCAD and DGP between 2004-2010)

The use of smooth animated transitions and simple interactions in InfoVis to support rich visual exploration

[T4] November 17, 2010 (invited talk): University of Ontario Institute of Technology (UOIT), Oshawa, Ontario.

Diffamation: Using Text Animated Transitions to Support Navigation in Document Histories

[T3] November 3, 2010 (invited panelist) “Centre on Innovation for Information Visualization and Data Driven Design - Information Visualization for Text Analysis” panel, part of the CASCON 2010 conference, Centre for Advanced Studies Research, IBM Canada Software Laboratory, Markham, Ontario.

[T2] May 11, 2010 (invited keynote speaker) plenary session of the Ubuntu Developer Summit in Brussels, Belgium.

Introduction to Information Visualization

[T1] May 25, 2010 (workshop co-leader): Centre for Innovation in Information Visualization and Data Driven Design, OCAD-University, Toronto, Ontario.

Service to the Research Community

Program and Organization Committee

- Program Committee Member of Work In Progress of the ACM CHI Conference, 2011.
- Fast-forward Session Organizer, at the IEEE Vis and InfoVis Conference, 2010.
- Co-founder, main organizer and webmaster of the Parisian Seminar on Information Visualization and Human-Computer Interaction (2008-2010)
Guests : Jeffrey Heer, Ben Shneiderman, Alex Telea, Neva Cherniavski, Frank Van Ham, Mary Beth Rosson, Nicolas Roussel, Petra Isenberg, Tobias Isenberg, Nicolas Garcia Belmonte.
Video showcase: HCI and Infovis video showcase.
<http://www.lri.fr/~chevalie/visuhciseminar.html>
- Organization Committee member of PariSTIC Workshop, Bordeaux, 2003.

Paper reviewing

- ACM CHI 2010, 2011
- IEEE InfoVis 2009, 2010
- IEEE VAST 2010
- Eurographics/IEEE Eurovis 2009, 2010
- ACM-SIGCHI AVI 2010
- IEEE PacificVis 2010, 2011
- IHM 2010 (French-speaking conference)
- IEEE Transactions on Visualization and Computer Graphics (TVCG), since 2008
- International Journal of Human-Computer Studies (Elsevier), since 2010
- Signal Processing: Image Communication on Content-Based Multimedia Indexing (Elsevier), since 2007
- Information Sciences (Elsevier), since 2007

Research-Related Activities

November 2009

Co-scenarist, co-director and the main visualization developer of a short movie promoting Visual Analytics realized for the European project VisMaster and featuring the 131-megapixel display at INRIA, Paris.

<http://www.vismaster.eu>

2006 to present

Member of IEEE and ACM

Awards

- Best student paper award for paper presented at CBMI, Bordeaux, 2007 (see [W1]).

Funding

- OCAD Post-doctoral Fellowship
\$50.000 per year, held in 2010 for 2 years
- INRIA-Microsoft Post-doctoral Fellowship
~ \$45.000 per year, held in 2008 for 2 years
- University Institutes for Technology (IUT Bordeaux 1) ATER (equiv. Teaching Assistant) Fellowship
~ \$20.000, held in 2007
- University of Bordeaux 1 MENRT Scholarship (French governmental Graduate Scholarship)
~ \$15.000 per year, held 3 years consecutively, 2004-2006
- University of Bordeaux 1 Moniteur d'Initiation à l'Enseignement Supérieur Scholarship
(French governmental fellowship for selected Lecturers)
~ \$ 4.000 per year, held 3 years consecutively, 2004-2006
- Undergraduate Scholarship (merit-based French governmental Scholarship)
~ \$ 4.000, held in 2003

References

(Additional references on request)

President Sara Diamond

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