

# Bérenger ARNAUD

Doctor informatics & CS Reseach Engineer

Ubiquitous+Connected • Exotics Input Interactions • Collaborations Heteroneous and Dynamic Data • Sorytelling and Storyboarding

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## Profile

Due to my dual cursus, I have developed dual competences in both research and industry. I have maintained these skills as an **R&D Engineer** specialising in RIA and in parallel researching a **Doctorate in HCI**. I also give some lectures at the Montpellier 2 University.

I am currently available as a research engineer in HCI or related fields such as visualisation, exotic interaction, brushing techniques, adaptive renderers, unknown data, etc...

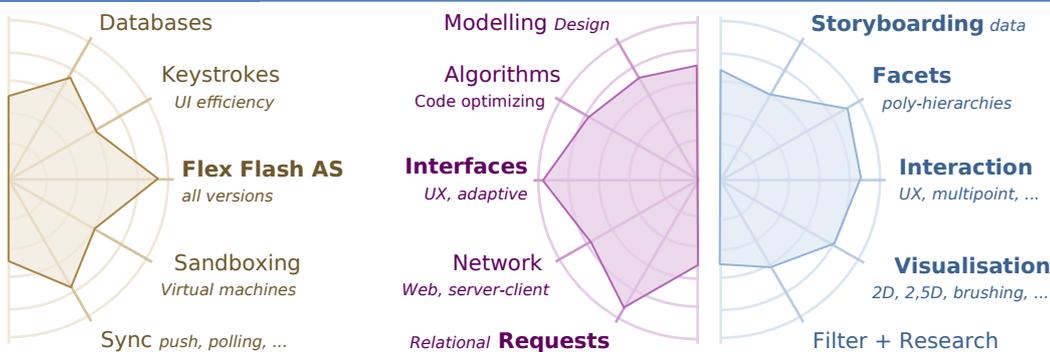
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**French** native  
**English** scientist  
**Spanish** to revive

👋 **French Sign Language** Beginner

## Main skills

### Development Research



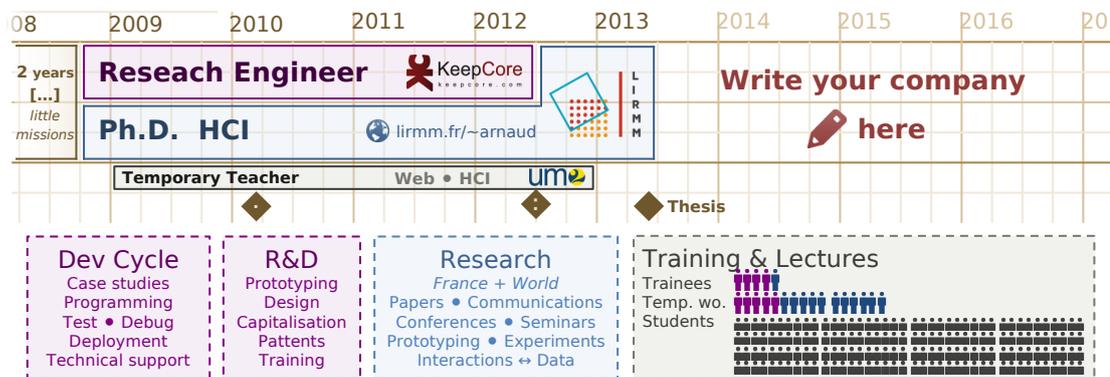
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🔧 **flex** **Blazeds** **Lc** **Java** **HTML CSS** **E4X** **php**

ActionScript JavaScript XML E4X  
C/C++ Delphi Pascal assembler  
[My]SQL[ite] OO-DB UML Merise

**IDE** Eclipse Netbeans Delphi  
**Flash** Builder Catalyst Pro/IDE  
**Office** MS-Office Dreamweav GIMP

## Experiences



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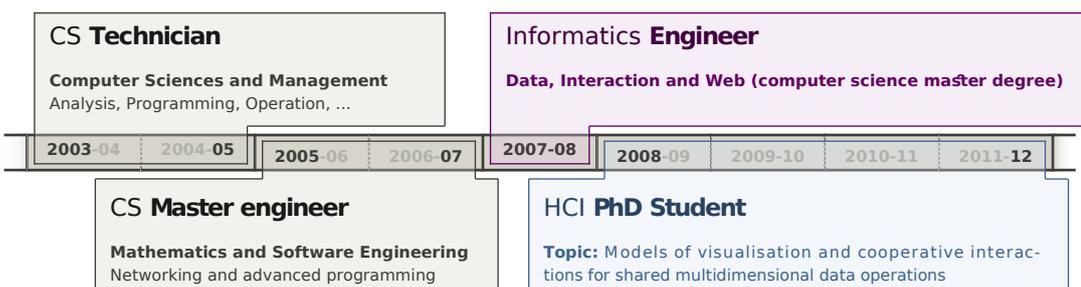
**Conference committees**

- ◆ RJC'10 : French HCI PhD students
- ◆ IV'12 : International HCI research

**Developer** 6 months  
Project for Altis Semiconductor, teamwork, customer relationship, ...

**Internships** 15 months  
Jabber chat, tree visualizations, data treatment and management, ...

## Academic training



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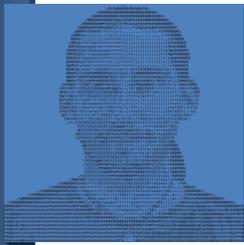
🕒 28 year old  
👤 Single

🎯 Stage fencing  
🎮 RPG • Scenario creation  
📶 Ubiquitous technologies  
🗨 Isotype

## More

🔗 <http://berengerarnaud.496.fr/>





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## Articles

LIRMM (lirmm.fr) - **Université Montpellier 2 - CNRS**



**2013 - CHI Workshop** - « Avec le Temps! Time, Tempo, and Turns in Human-Computer Interaction » -  
<http://chi2013time.wordpress.com/> - <http://chi2013.acm.org/>

### Toward an Abstract Relative Timeline

Authors: Bérenger Arnaud, Mountaz HASCOËT

In this paper, we propose an interaction style devoted to the specification of subjective and conceptual temporal expressions. We propose an abstract relative timeline as the central support for this interaction style. Our aim is to reach a satisfactory level of expressiveness while preserving concision and clarity. We provide results from preliminary attempts to use this approach to express twenty typical target challenging conceptual temporal expressions.



**2011 - IV** - Information Visualisation - <http://www.graphicslink.co.uk/>

### CoViz: Cooperative Visualization to Facilitate Sense Making by Groups of Users

Authors: Bérenger Arnaud, Guillaume Artignan, Mountaz HASCOËT, Nancy Rodriguez, et al.

Coviz is a tool that uses visualization to support spontaneous construction, organization and exploration of collections. We use the term collection to identify a set of documents gathered for a given purpose by one or several individuals. Coviz facilitates creation, organization and update of collections by providing multi-scale visualization and interaction techniques. Coviz has been tested in several informative case studies involving small groups of users. In these situations, Coviz has fulfilled several important aspects of both groups and personal organization needs. Our initial experiments indicate that Coviz can even encourage unusual and interesting forms of cooperation among people.



**2009 - H<sup>2</sup>PTM** - Hypertext, Hypermedia, Products, Tools and Medias

### Collaborative document tagging (Original title: *Marquage collaboratif de documents*)

Authors: Bérenger Arnaud, Mountaz HASCOËT

In this paper we propose an alternative model to the current tag marking. Our approach is to allow each user to create his personal structure of tags and allow him to partially or fully coordinate with the other members. [...]



**2009 - H<sup>2</sup>PTM** - <http://www.paragraphe.info/evenements/index.php/H2PTM/H2PTM09>

Semiology and visualisation of digital identity: a comparative study of Facebook and MySpace

(Original title: *Sémiologie et visualisation de l'identité numérique : une étude comparée de Facebook et MySpace*)

Authors: Fanny GEORGE, Antoine SEILLES, Guillaume ARTIGNAN, Bérenger ARNAUD, et al.

This paper presents a comparative semiotic analysis and quantitative cultural influence of Web 2.0 interfaces on the representation of identity, including the impact of the quantification of the identity using visualization tools. [...]

+ Thesis (April 2013) publication in progress

### Exploitation et partage de données hétérogènes et dynamiques

In information technology, end users can be faced with impossible tasks due the lack of options or need to adapt their though processes and habits to new paradigms. The domains of infor-matics - databases, programming languages, etc - have their own way of looking at the world and how to present information to the user. A first work of this thesis is a study and a synthesis of the emerging concepts that allow the equivalences between domains to be shown.

The first contribution consists of improving shared bookmarks in two ways though our tool Coviz. (1) Each user bookmarks documents with their own terms, these labels can be categorised against each other according to how specific they are. (2) The tool combines keyword search (like Google) with document selec-tion by characteristic (like eBay). This last point is common to all users, that is to say all the actions of individual users are combined and considered to be those of a group.

The second major contribution (which is confidential) is a tool - DIP - that plugs into existing soft-ware tools. Its purpose is to provide greater freedom to the user over the interaction with and presentation of data. The principle is to reduce the constraints due to computer/software limitations by adding new direct access methods between the user and raw data. It was tested in the field with the tool KeePlace. The result is that the user gains in the expressiveness of sorting of data - particularly concernig dates and times -, in sharing, retaining browser state, automating day-to-day tasks, etc.

numeric data ; heterogeneous data ; dynamic data ; poly-hierarchies ;  
collaboration ; tagging ; facets ; interaction ; InfoVis ; presentation

Plus d'infos



<http://berengerarnaud.496.fr/>

