

Delphine SZYMCZAK *delphine.szymczak @ certec.lth.se* born on 27th may 1986
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Computer Science Engineer – PhD Student in Rehabilitation Engineering

EDUCATION

2009-present **Lunds Universitets – Lunds Tekniska Högskola** (Sweden)
PhD student at Certec, Department of Design Sciences
Non-visual human-computer interaction (audio and haptic)
2011 *Designing Guidance along Audio-haptically Augmented Paths in a City Environment*
Licentiate thesis and defense – equivalent to a half PhD

2004-2009 **Université de Technologie de Compiègne** (France)
06-09 Computer Science Engineer (Systems and Networks)
08-09 Master « Innovation Knowledge Interaction »
06-07 University of Pennsylvania, year abroad (United States of America)

PROJECTS

2009-2012 **HIPP – Haptik i Pedagogisk Praktik**

- Programming in C++ of an haptic and audio drawing application
- Iterative development, User-Centered Design, Participatory design

2009-2012 **Haptimap Haptic, Audio and Visual Interfaces for Maps and Location Based Services**

- Design for all, evaluation and research around a pedestrian navigation application
- Interaction based on GPS, compass, sound, vibration and gestures with an Android phone

Feb. 2009 **Multi-Touch Interface for 3D design, Dassault Systèmes, internship** 6 months

- Exploration of the contribution of Multi-Touch gestures particularly for 3D design

Programming for smartcards (Inseal Contactless, OTI group, Paris)

Sep. 2007 *Internship* 6 months

Jul. 2008 *Junior software programmer* 2 months

- Writing of functional tests in Python and integration in internal tools
- Discovery of payment applications for contactless smartcards

SKILLS & INTERESTS

French – C2	English – C1	Swedish – B1/2	German – B2	Spanish – B2
Mother language	Fluent	Everyday use	Good level, to be reactivated	Scholar level, to be reactivated

- Programmation : imperative (C), object (Java, Python, C++) and logical (Prolog) programmation
- Proficient in : Visual Studio, Eclipse, Trac, SVN, Android, wxWidgets, H3D, Sensable Phantom...
- Interested in the topic of free/open-source software (home user of Ubuntu, member of [APRIL](#))
- Interest for- and initiation to humanities, Cultural-Historical Activity Theory, qualitative research

LIST OF PUBLICATIONS

Licentiate Thesis :

- Delphine Szymczak, *Designing Guidance along Audio-haptically Augmented Paths in a City Environment*, 2011

Co-author in conference papers/posters :

- Magnusson, C., Molina, M., Rasmus-Gröhn, K., Szymczak, D., *Pointing for non-visual orientation and navigation*, NordiCHI 2010, October 16 - 20, 2010, Reykjavik, Iceland
- Magnusson, C., Rasmus-Gröhn, K., Szymczak, D., *The influence of angle size in navigation applications using pointing gestures*, The fifth International Workshop on Haptic and Audio Interaction Design (HAID), September 16-17, 2010, Copenhagen, Denmark
- Magnusson, C., Rasmus-Gröhn, K., Szymczak, D., *Scanning angles for directional pointing*, poster at MobileHCI 2010.
- Magnusson, C., Rasmus-Gröhn, K., Szymczak, D., *Angle sizes for pointing gestures*, Pervasive 2010 workshop: Multimodal Location Based Techniques for Extreme Navigation.
- Magnusson, C., Rasmus-Gröhn, K., Szymczak, D., *Show me the direction – how accurate does it have to be?*, MobileHCI 2010 workshop: Using Audio and Haptics for Delivering Spatial Information via Mobile Devices.
- Rasmus-Gröhn, K., Molina, M., Magnusson, C., Szymczak, D. *An Audio-Haptic Mobile Guide for Non-Visual Navigation and Orientation*. 5th International Workshop on Haptic and Audio Interaction Design (HAID) September 16-17, 2010, Copenhagen, Denmark

Workshops :

- paper and presentation at Eurohaptics 2010 :
K. Rasmus-Gröhn, D. Szymczak, C. Magnusson, *An Audio-Haptic Exploring and Drawing Application to Support Collaboration in School*
- paper at NordiCHI 2010, OMUE workshop
C. Magnusson, K. Rasmus-Gröhn, D. Szymczak, *Methods for understanding the mobile user experience*