Amélie Rochet-Capellan

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Last update: February 2011

Birth date: 04-12-1978, Status: Married, one child.

Since January 2008 Post-Doctoral Fellow - D.J. Ostry (McGill University, Montreal; Haskins Laboratories, New Haven).

Research interests

- ◇ **S**peech motor control and speech perception.
- ◇ **S**pecificity of speech sensori-motor learning.
- ◇ **H**and - Mouth coordination in human communication.
- ◇ **L**angage embodiment.
- ◇ **M**otor constraints and langage origins.

Research experience, post-doctoral fellow

- ◇ **Post-Doctoral Fellow since 01/2008**, Motor Control Lab, department of psychology, McGill University, Montreal, D.J. Ostry.

  Specificity of speech sensori-motor learning: Adaptation of vowels production in response to real time perturbations of the auditory feedback (Real time change of formants frequencies in the auditory feedback).

  Effect of auditory-motor learning on speech perception: Psychophysics and Electrophysiologic approaches (EEG Biosemi).

  Sensori-motor learning of speech, developmental aspects: Comparison of the properties of auditory-motor adaptation in adults and young kids, collaboration with D. Shiller (University of Montreal) and VL Gracco (McGill University).

  Speech and hand coordination in deixis: Mutual interaction and effect of language properties, cross linguistics studies (Brazilian Portuguese vs, French). Fyssen foundation fellowship, collaboration with JL. Schwartz, C. Vilain, M. Dohen (Gipsa-Lab, Grenoble) and R. Laboissière (ISERM, Lyon).

  Articulatory constraints and LC effect: Comparison of French and German speakers, collaboration with L. Lancia et S. Fuchs (Centre For General Linguistics, Berlin).

- ◇ **Master and PhD 10/2003-2007**, with JL Schwartz, Gipsa-Lab (DPC)

  Articulatory constraints and universals in world languages: Labial-Coronal Effect and Jaw-Tongue-Lips coordination, Acoustics and Ariculatory studies (EMA).

  Speech and hand coordination in deixis: Effect of the speech focus - Biomechanical constraints, Optotrak studies, collaboration with R. Laboissière and A. Galván (Max-Planck Institutes, München)

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Education

◇ **Cognitive sciences**, Institut National Polytechnique, Grenoble, France.

PhD thesis: 10/2004-2007. *From substance to form: the role of speech orofacial and brachiomanual constraints in the emergence of language*

Master 2 of Science: 9/2003 - 6/2004 - Information, Cognition, Apprentissage (ICA) - French government fellowship.

◇ **Computer Sciences**, Pierre Mendès France University, Grenoble, France.

Master of engineering, DESS: 9/2000-2001. Intense training in computer sciences (algorithmic, C/C++ and Java programming, Web, Netwok and System). Training projects : (1) Development of a vocal application for a phone server in C - 1 month in a phone server company; (2) Design and implementation of a web site for a research project (HTML, CSS, PHP, Java, Matlab) - 3 months at the "Institut de la Communication Parlée".

◇ **Psychology**, University of Savoie, Chambéry, France.

Fourth year university degree (Maîtrise): 9/1999-9/2000 - Specialization in cognitive psychology. Research project: Experimental study of Implicit Memory, priming effects. Training courses (2 weeks) with a neuropsychologist at the Hospital of Annecy, France.

Bachelor's degree (DEUG and Licence): 9/1996-9/1999 - General psychology, experimental methods, statistics.

◇ **Scientific Baccalauréat**, major mathematics, 1996.

Teaching Experience

◇ **Teaching assistant** Pierre Mendes France University,Department of Computer Science, Mathematics and Social Sciences, 9/2004 - 9/2007 (192 teaching hours).

Java and Scheme programming: First year of MIASS bachelor degree (computer science and mathematics applied to social sciences) - Beginners programming.

System and Network: Third year of MIASS bachelor degree and Master ICA (Information, Cognition, Learning), Windows and Linux (architecture, shell programming) - Network (Main protocols, Administration), Client/Server programming using Java Sockets.

◇ **Third year teaching assistant project**, "Why do we see From light to brain." - 9 hours of physics and biology courses to secondary school teenagers who are outside the school system because of heavy psychological troubles.

Computer Science Experience

◇ **Web and Java programming (CDD - 11/2001-2/2002)**, Institut de La Communication Parlée,Grenoble-Design and implementation of a web site for a scientific project - Java implementation of a vocal tract model initially developed with Matlab - 11/2001-2/2002.

◇ **Design of medical softwares**, Computer department of the hospital of Grenoble - Model users' needs using UML, write functionnal specifications and design storyboard, initiate a human design guide for developers - 4/2002-4/2003.

QUALIF., AWARDS AND HONORS

- ◇ **Qualification to the functions of Maître de Conférences** - section CNU 07 (Sciences du langage: linguistique et phonétique générales) 2008
- ◇ **Doctoral dissertation award** from the French-speaking Association for Spoken Communication (AFCP) 2008
- ◇ **Post-doctoral fellowship from the Fyssen foundation** 01/2008-12/2008
- ◇ **French government PhD fellowship**. 10/2004 - 10/2007
- ◇ **Master scholarship**. 10-2003 - 7-2004

SKILLS

- ◇ **Computer science** Java, C++, C, scripting, MacOS X, Linux, Windows...
- ◇ **Experimental/Analysis/Statistics tools**: Matlab, Octave, R, SPSS, Pratt, EEGLab, Presentation ...
- ◇ **Methodology in experimental psychology**: Experimental design, ANOVA.
- ◇ **Language**: English (Working knowledge): Italian (Basic knowledge).