




Personal Information



PostDoctoral Scientist
 CHILI/LSRO Labs
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 Wafa Johal  Wafa Johal

Civil Status Married with one child (<1 y.o.), French Nationality

Education Ph.D in Applied Mathematics and Computer Sciences, October 30 2015

University of Grenoble Alps, Laboratory of Informatics of Grenoble - MAGMA Team France

- Thesis Topic : *Behavioural Styles for Human-Robot Interaction : Towards Plasticity in HRI*
- Advisers : Prof. Sylvie Pesty & Prof. Gaëlle Calvary
- Jury Members : Mohamed Chetouani (UPMC), Pierre DeLoor (ENIB), Pierre Dillenbourg (EPFL), Dominique Vaufreydaz (UPMF), Dominique Duhaut (ENIB), Nadine Mandran (CNRS).
- Area of Study : Affective Computing, Human-Robot Interaction, Personalization, Plasticity

M.S., Computer Sciences : Graphics, Vision & Robotics, June 2012

University Joseph Fourier, Grenoble, France

- Thesis Topic : *Multi-modal detection of intention of interaction by a companion robot*
- Adviser : Dr. Dominique Vaufreydaz
- Area of Study : Activity Recognition, Multi-modal Data Fusion

B.S. B.A. Mathematics and Informatics applied to Cognitive Sciences, June 2010

Pierre-Mendès France University, Grenoble, France

- *Topped, Summa cum Laude*
- Mathematics : Linear Algebra, Logic, Probabilities, Statistics
- Computer Sciences : Algorithms & Programming
- Cognitive Sciences : Memory, Learning & Perception

Exchange Student for one year in Washington College, MA (U.S.A.), August 2009 - May 2010

Academic Employment Postdoctoral Scientist for NCCR Robotics - EPFL Switzerland, October 2015 - current

Computer Human Interaction for Learning and Instruction Lab (Pr. Pierre Dillenbourg),
Mobile Robots Group - LSRO (Pr. Francesco Mondada)

- In charge of the robotics part of the CHILI Lab. Working mainly on two research projects : Cellulo and CoWriter
- Area of Study : Human-Robot Interaction, Personalization, Robots in education, Tangible Robots, Cognitive Models for HRI

Grants and Approved Research Projects

ANIMATAS EU-Project H2020 ITN- Grant for 3PhD students	750k CHF	Jan. 2018 - Dec. 2022
NCCR Robotics Workshop Grant	Swiss R4L Workshop	8.5k CHF Oct. 2017

Supervision of Junior Researchers

Arzu Guneyasu, EDRS PhD Student EPFL, Gamification for upper-arm rehabilitation using tangible robots. March 2017 -.

Thibault Asselborn, EDRS PhD Student EPFL, Adaptive Learning in CRI. June 2016 -.

Elmira Yadollahi, EDRS PhD Student EPFL/IST Lisbon, CoReader - CRI for Reading. November 2016 -.

Ayberk Ozgur, EDIC PhD Student EPFL, Cellulo - Haptic Swarm Robots for Education. October 2015 - December 2017 (expected).

Alexis Jacq, EDRS PhD Student EPFL/IST Lisbon, Mutual-Modeling for CRI. October 2015 -.

Ilef Benfarhat, Graduate Student, Ecole Nationale des Sciences de l'Informatique de Tunis, Feb 2013 - July 2013

Teaching

École Polytechnique Fédérale de Lausanne, Switzerland

October 2015 - ...

- Visual Computing : Vision & Graphics, AR-game project using processing and various computer vision techniques.

- Instructor for ACVL : Software's Analysis, Conception and Validation.
Methods for Requirement Analysis, Software Design Patterns UML Diagrams and Object Constraint Language
- Instructor for Introduction to Programming
OCaml and Python, Complexity analysis

Pierre Mendès-France University, Grenoble, France

October 2013- January 2014

- Instructor for INF f-1 : Undergraduate Beginner Programming, Lectures & Practical Sessions

Joseph Fourier University, Grenoble, France

October 2011- January 2012

- Instructor for Biology Undergraduates : C2i, Burautic, Basic HTML, Lectures & Practical Sessions

Academic
Services

Co-founder of the **Robodoc-LIG** research group for PhD students at the Laboratory of Informatics of Grenoble.

Conferences & Events

Guest Editor Special Issue for the International Journal of Social Robotics - Springer, on "Robots for Learning", 2017.

Session Chair on Implicit Human-Robot Communication, **RO-MAN 2016**. New York, USA - August 29, 2016.

Program Committee

- International Conference on Human Robot Interaction, **HRI 2018**.
- International Conference on Social Robotics, **ICSR 2016**. Kansas City, USA - November 1-3, 2016.
- Workshop on Behavior, Emotion and Representation :Building Blocks of Interaction at International Conference on Human-Agent Interaction, Bielefeld, Germany, October 2017.

Organisation Committee

- "Workshop on Robots for Learning" @HRI 2017, **R4L@HRI**. Vienna, Austria - March 6, 2017.
- "Workshop on Robots for Learning" @RoMan 2016, **R4L**. New York, USA - August 27, 2016.
- "Workshop on Social Robots in Education" , **@NewFriends 2016**. Barcelona, Spain - November 2, 2016.
- "Workshop Affect, Compagnon Artificiel, Interaction" , **WACAI 2012**. Grenoble, France - 15 & 16 November 2012.
- **PersyCup Robotic Challenge**. Grenoble, France - 21 Mai 2015.

Reviewer for :

- ◊ *ERA.Net RUS PLUS - FP7*, Robotics Expert Panelist at the S&T Council, October 2017
- ◊ *International Journal of Human-Robot Interaction*, 2016, 2017
- ◊ *International Journal of Social Robotics*, 2016, 2017
- ◊ *IEEE Robotics and Automation Magazine (IEEE-RAM)*, 2016
- ◊ *Journal of Cognitive Systems Research*, 2016
- ◊ *Journal on Interaction Studies*, 2016
- ◊ *Transaction on Learning Technologies*, 2017
- ◊ *International Journal of Child-Computer Interaction*, 2017
- ◆ *ACM CHI Conference on Human Factors in Computing Systems (CHI)*, 2017
- ◆ *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2017
- ◆ *International Conference on Social Robotics (ICSR)*, 2015, 2016
- ◆ *International Conference on Human Robot Interaction (HRI)*, 2015, 2016, 2017
- ◆ *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, 2014, 2015, 2016

Awards

- 2017 Best Paper Award : ACM Human-robot Interaction Conference (HRI), Vienna, Austria.
- 2016 Qualification for a position as an assistant professor in Computer Sciences, by the French Ministry of Research and Education (Ref : 16227283862), From 29/01/2016.
- 2015 Winner of the **Social Touch Challenge** at ICMI Nov. 2015.
- 2015 Best Paper Award : Honorable Mention, ACM Human-robot Interaction Conference 2015 (HRI), Portland, USA.
- 2015 **HRI Pioneers** : International Conference on Human Robot Interaction (HRI)

Professional
Associations

- NCCR Robotics, SNF, Switzerland
- IEEE Member
- RAS Member
- Reseau Romand Mentorat

Invited Speaker

- HRI 2018 Mini symposium, Cornell University, Ithaca, NY, USA
- The Classroom of Tomorrow – Swarm Robots in Education, Swissnex Boston, USA, April 2016.
- Non-verbal Communication in Human Robot Interaction, MIT Media Lab, Personal Robotics Group, April 2016.
- Engagement & adaptation : how human-robot interaction can help in everyday life, Naver Labs Europe, December 2016.

Outreach

- Mentor for "La science c'est ...aussi pour les filles!", Service Promotion des Sciences, EPFL, 2016, 2017
- Blog Author for BOLD, "What are robots doing in schools", Johal W. and Dillenbourg P..
- Demos at Cambridge Science Festival (April 2016, Boston USA), Journées des Classes (2016 - 2017, Lausanne), EPFL Open Days (November 2016, Lausanne)

Language

- French : Mother tongue
- English : Fluent - TOEFL, 1 year in USA, Masters taught in English

Career breaks

Feb. 2017 Maternity leave after the birth of my son, Liam Johal on 05.02.2017.
- May 2017

Others 1996-2010 Scout at Eclaireurs Eclaireuses de France (EEDF)
2004 Youth Worker Diploma (BAFA - Brevet d'Aptitude aux Fonctions d'Animateur)

References Available to Contact

Prof. Pierre Dillenbourg (e-mail : pierre.dillenbourg@epfl.ch) - EPFL
◊ Head of Computer Human Interaction for Learning and Instruction Lab. *I work with Pr. Dillenbourg on the CoWriter and Cellulo projects.*

Prof. Francesco Mondada (e-mail : francesco.mondada@epfl.ch) - EPFL
◊ Head of MOBOTS Group, LSRO-Lab. *I work with Pr. Mondada on the Cellulo project.*

Prof. Sylvie Pesty (e-mail : Sylvie.Pesty@imag.fr) -University Institute of Technology (IUT2-UPMF),
◊ Member of MAGMA Team, LIG-Lab. *Prof. Pesty was my supervisor during my PhD.*

Prof. Gaëlle Calvary (e-mail : Gaelle.Calvary@imag.fr) - ENSIMAG Grenoble Institute of Technology,
◊ Member of Engineering of Computer Human Interaction Team, LIG-Lab. *Prof. Calvary was my co-supervisor during my PhD.*

Dr. Dominique Vaufreydaz (e-mail : Dominique.Vaufreydaz@inria.fr) - University Pierre Mendès-France
◊ Member of PRIMA Team, INRIA & LIG-Lab. *Prof. Vaufreydaz was my supervisor during my Masters.*

More Information

More information and auxiliary documents can be found at
<http://wafa.johal.fr/>.