Curriculum Vitae

Dr Sarah FDILI ALAOUI

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Nationality: French/Moroccan

Associate Professor in Human-Computer Interaction
University Paris Sud / Paris Saclay

Professional Experience

Sept 2015 to date	Associate Professor in Human-Computer Interaction, Interaction Design, Art and Science University Paris-Sud / Paris Saclay, LRI, INRIA Team Ex)situ, Orsay, France.
Sept 2013 Aug 2015	Postdoctoral Researcher in the MovingStories project Topic: Digital Media based on high-level approaches to movement. Simon Fraser University, School of Interactive Art + Technology, Vancouver, Canada.
Mar 2013- Aug 2013	Postdoctoral Researcher in the Labodanse project Topic: Online physiological and neurophysiologic measures for dance. IRCAM, University Paris 8, Paris, France.
Sept 2012- Sept 2013	Sessional Instructor in Computer Science Courses: Introduction to Computer Science, Computer Graphics, and Human-Computer Interaction. University Paris-Sud, LIMSI-CNRS, Paris, France.
Sept 2009- Dec 2012	PhD Candidate in Human Computer Interaction, Art and Science Supervised by: Christian Jacquemin and Frederic Bevilacqua. IRCAM, University Paris-Sud, LIMSI-CNRS, Paris, France.
Sept 2011- Sept 2012	Organizer of Arts and Science Days (now CURIOSITas festival) Art and Culture department of the University Paris-Sud, Orsay, France.
Sept 2009- Sept 2011	Teaching Assistant in Computer Science Courses: HCI, Computer Graphics, Algorithmic, C++ Programming C++. IRCAM, University Paris-Sud, LIMSI-CNRS, Paris, France.
Sept 2007- Sept 2009	IT-SAP consultant Topic: Functional manager of the SAP billing process for the client EDF Accenture, Paris, France.
Jan 2007 - Sept 2007	MSc Internship in Machine Learning Topic: Classification of Image document using SVM Xerox Research Centre Europe, Grenoble, France.
Jun 2005 – Sept 2005	BSc Internship in Applied Mathematics Topic: Resolution of Navier & Stockes equations for incompressible fluid flow in a resonator Illinois Institute of Technology, Chicago, USA.

Education

Sept 2012 Sept 2014	Certification in Laban Movement Analysis. Coordinated by Karen Studd and Karen Bradley Laban Institute For Movement Studies, New York City, USA.
Sept 2009- Dec 2012	PhD in Computer Science, Human Computer Interaction (Defended on Dec 19th 2012 with honours) Thesis: Dance gesture analysis and physical models based visual feedback: contribution of movement qualities to interaction Supervised by: Christian Jacquemin and Frédéric Bevilacqua. IRCAM, LIMSI-CNRS, University Paris-Sud, Paris, France.
Sept 2006- Sept 2007	MSc. in Applied Mathematics, Major: Machine Learning (obtained with honours) Thesis: Classification of Image documents using SVM University Joseph Fourier, Grenoble, France.
Sept 2004- Sept 2007	Engineering Degree in Applied Mathematics & Computer Science (obtained with honours) INPG-ENSIMAG (French Grande Ecole), Grenoble, France.
Sept 2002- Sept 2004	Classes préparatoires for entrance examinations to the French Grandes Ecoles (MPSI/MP*) CPGE Janson De Sailly. Paris, France.
Sept 1999- Sept 2002	High School Diploma in Science, option Mathematics (obtained with honours) Dar Essalam High School. Rabat, Morocco.

Awards and Grants

2016-2017	Funding "Projet Phare" for Radical Choreographic Objetc, La diagonale de Saclay, 1 year
2016-2017	Funding "Coup de Pouce" for production of SKIN La diagonale de Saclay, 1 year
2015-2016	Starting Grant for Associate Professor, LRI, 1 year
2014-2015	Connection Grant for organisation and coordination MOCO, SSHERC, 1 year
2014-2015	Funding for organisation of Hakanai, performance by AM/CB during ISEA/MOCO, Institut Francais in Canada and Consulat de France in Vancouver, 1 year
2013-2015	Postdoctoral fellowship, MovingStories Project, SFU, Vancouver, Canada, SSHERC, 2 years
2012-2013	Postdoctoral fellowship, Labodanse Project, University Paris 8, Paris, France. Labex Arts H2H, 5 months
2012-2013	Fellowship for Sessional Instructor, University Paris-Sud, 1 years
2012	Honorable Mention at Designing Interactive Systems
2009/2012	Grant for Doctoral Studies, EDIPS University Paris-Sud, 3 years

Competences and Skills

Movement Skills	Experience Explicitation Interviews, Laban Movement Analysis, Motif Movement Notation, Movement observation, Embodiment.
Artistic Competences	Contemporary Dance, Dance Improvisation, Choreography, Interactive Media, Digital Performance, Interaction Design, Graphical Design.
Scientific Competence	Human Computer Interaction, Movement Analysis, Motion Capture, Interaction Design, Machine Learning, User Experience, Mathematical Modelling, Computer Graphics.
Software	MaxMSP, Open Frameworks, Processing, PureData, Python, Matlab, Scilab, R, Suite Office.
Computing languages	C, C++, Java, Python, OpenGL, Cg, Ada, Caml, SQL.
Languages	French and Arabic (native), English (fluent), Spanish and Portuguese (beginner).

Art and Science projects

2016-2017	Performance Radical Choreographic Object In collaboration with the Chorégraphe Jean-Marc Matos from K-danse cie. Performance Ergonomics In collaboration with Rocio Berenguer from Pulso cie.
2015-2016	Still, moving – Interactive Installation / Performance, Exhibited at scores + traces collective exhibition at the one Art space in NYC In collaboration with Jules Francoise and Yves Candeau (SFU) SKIN– Interactive Dance Performance In collaboration with Tamara Erde.
2014-2015	Worlds – Interactive VR Dance Performance, performed at ISEA2015. In collaboration with Thecla Schiphorst (SFU) and Athomas Goldberg Glass Dance – Interactive VR Dance Performance, performed at ECUAD. In collaboration with Thecla Schiphorst (SFU) and Athomas Goldberg Connecting Movement – Interactive VR Dance Performance, performed at ECUAD. In collaboration with Thecla Schiphorst (SFU) and Athomas Goldberg
2013-2014	Self and Self Portraits Interactive Dance Performance. In collaboration with composer Roxanne Nesbitt (UBC) and dancer Alexa Mardon Workshop on Interactive Sonic Feedback of Laban Effort qualities, given at SCA SIAT. In collaboration with researchers Jules Francoise and Frederic Bevilacqua (IRCAM)
2012-2013	Online physiological and neurophysiologic platform for dance, Labodanse project In collaboration with choreographer Miriam Gourfink
2011-2012	Pre-choreographic Elements Platform, Labo21 project In collaboration with the international dance companies Emio Greco | PC, Troubleyn-Jan Fabre, Random Dance-Wayne Mc Gregor. BADco's performances Chiselling Bodies, Interactive Dance Performance, performed at IRCAM. In collaboration with dancer Marion Cavaillé (Ballet National de Marseille)
2011-2012	A light Touch II, Interactive Installation, exhibited at the Workshop on Movement Qualities and Physical Models Visualizations, IRCAM, Paris. In collaboration with researchers Baptiste Caramiaux (IRCAM) and Marcos Serrano (ENSAD)
2010-2011	Sabour, Interactive Dance and Visual Performance, performed at Le Fresnoy Festival Panorama 13. In collaboration with visual artist Elika Hedayat and dancer Tamara Erde (Fresnoy Institute) and Interaction Designer Nicolas Rasamimanana (Phonotonic) A light Touch, Interactive Installation, exhibited at ACM Designing Interactive Systems In collaboration with researchers Baptiste Caramiaux (IRCAM), Marcos Serrano (ENSAD)
2009-2010	Double Skin/Double Mind, Interactive Installation Inside Knowledge Movement project, installed at the AHK School of the Arts in Amsterdam. In collaboration with the international dance Company: Emio Greco | Pieter C. Scholten. Cloud, Interactive Multimodal Installation, Demo at VRIC Laval Virtual. In collaboration with researchers Nathalie Delprat (LIMSI-CNRS) and Claire Leroux (Arnum/ESIEA). GAVIP, Interactive Multimodal Installation In collaboration with researchers Tiffanie Bouchara, Matthieu Courgeon, Gaëtan Parseihian (LIMSI-CNRS), Marc Rébillat (Ecole Polytechnique) and Baptiste Caramiaux (IRCAM).

Organizational Activities

2015- 2016   Coordination of the Innovation and Entrepreneurship Minor of the Human Computer Interaction and Design Master program, Founded by the EIT Digital, University Paris Sud, Orsay, France.

2014- 2015   Organizer/Producer of the Hakanai performance by AM/CB during ISEA/MOCO, SFU, Vancouver.
Organizer of the International Workshop on Movement and Computing (MOCO), SFU, Vancouver.
Part of the organization of the International Symposium on Electronic Arts (ISEA), SFU, Vancouver.
Organizer of the May Residency of the MovingStories Project, Emily Carr University, Vancouver.

2013-2014   Organizer of International Workshop on Movement and Computing (MOCO), IRCAM, Paris.
Organizer of the May Residency of the MovingStories Project, Emily Carr University, Vancouver.

2012-2013   Organizer of the Movement workshop for Learning Laban Effort qualities using Interactive Sonic Feedback, SFU, Vancouver.

2011- 2012   Organizer of the Arts and Science days, University Paris-Sud, Orsay, May 2012.
Organizer of Workshop on Movement Qualities and Physical Models Visualizations, IRCAM, Paris.

2009-2010   Organizer of the conference "Journée des Jeunes Chercheurs en Audition, Acoustique Musicale et Signal Audio" JJCAAS, IRCAM, Paris.
Organizer of the "Journée des Doctorants de l'EDIPS", University Paris-Sud, Orsay.

Talks, keynotes, Residencies and Workshops

- Residency at Scene 44 for the performance SKIN, Marseille, France
- Keynote at the TEDx Saclay, Orsay, France.
- Presentation at the Casa Paganini Infomuse, Genova, Italie.
- Keynote at the Beyond Lab: « Entre L'Homme et la Machine : Le Défie des Nouvelles Interfaces, Orsay », Orsay, France.
- Keynote at Journée d'étude Scénariser la danse par le numérique, Université de Strasbourg, France.
- Presentation at the MovingStories May Residency, Vancouver, Canada, 2016
- Keynote at the workshop/exhibition "Corps Refléchis" by Cie Entorse, Caen, 2016
- Keynote at the Dance Notation Symposium, Paris, France 2016.
- Keynote at the Symposium Reimagining Choreometrics, Washington DC, USA, 2015.
- Talk at the LRI HCC team, Orsay, France, 2015.
- Présentation at the MovingStories May Residency, Vancouver, Canada, 2015.
- Talk the School of Interactive Arts and Technologies, Simon Fraser University, Vancouver, Canada, 2015.
- Talk at the IAS school, University of Washington, Seattle, USA, 2015.
- Presentation at University of Illinois Champana Urbain, EUA, 2015.
- Workshop at University of Maryland, Washington DC, USA, 2015.
- Panel about the workshop on Movement and Computing (MOCO) at NIME, London, UK, 2014.
- Presentation at the 7th PechaKucha Night Human x Technology Richmond, BC, Canada, 2014.
- Talk at the MovingStories May Residency, Vancouver, Canada, 2014.
- Talk at the MIT Medialab, Boston, USA, 2014.
- Talk at the Research & Creation Seminar at IRCAM Paris, France, 2013.
- Talk at EAVI seminar at Goldsmiths College, London, UK, 2013.
- Presentation at the research Cycles curated by Miriam Gourfink at la Gaïeté Lyrique, Paris, France, 2013.
- Talk at the Workshop on Intangible Cultural Heritage at Mines de Paris, Paris, France, 2013.
- Talk at the MovingStories May Residency, Vancouver, Canada, 2013.

- Talk at the Danse-Science Melange Seminar at the National Dance Centre, Paris, France, 2013.
- PhD Defence on the 19th December 2012 at LIMSI-CNRS, Orsay France
- Talk at the seminar of the Labo21 project at ICKAmsterdam, Amsterdam, Netherlands, 2012.
- Talk at the Dance Notation Series at ICKAmsterdam, Amsterdam, Netherlands, 2012.
- Talk at the Workshop on Movement Qualities and Physical Models Visualizations at IRCAM, Paris, 2012.
- Workshop on Embodied Interaction at Humteck in Roskilde University, Roskilde, Denmark, 2012.
- Talk at the "Atelier des Doctorants en Dance" at the National Dance Centre, Lyon, France, 2011.
- Residency of the TKB project in the "O espaço do tempo", Montemoro, Portugal, 2010.
- Workshop at the Lab4 of the Inside Movement Knowledge Project, Amsterdam, The Netherlands, 2010.
- Cognitive Science and Machine Learning Summer School, Sardinia, Italy, 2010.
- Workshop at the Lab3 of Inside Movement Knowledge Project, Amsterdam, The Netherlands, 2009.
- Workshop at the TanzKongress, Hamburg, Germany, 2009.

Teaching and Student Supervision

2015-2016	Programming in HCI for MSc students, University Paris-Sud, Orsay, France
	Programming in HCI for 3rd year undergraduate students, University Paris-Sud, Orsay, France
	Creative Design for MSc students, University Paris-Sud, Orsay, France
	Gesture and Mobile Interaction for MSc students, University Paris-Sud, Orsay, France
	Business and Development Labs for MSc students, University Paris-Sud, Orsay, France
	Innovation and Entrepreneurial Studies for MSc students, University Paris-Sud, Orsay, France
	Design Project for MSc students, University Paris-Sud, Orsay, France
	Computer Graphics 5th year Engineering students, University Paris-Sud, Orsay, France
	Supervision of 2 PHD student and 1 Master students at LRI, INRIA, Orsay, France
2015-2016	Programming in HCI for MSc students, University Paris-Sud, Orsay, France
	Programming in HCI for 3rd year undergraduate students, University Paris-Sud, Orsay, France
	Gesture and Mobile Interaction for MSc students, University Paris-Sud, Orsay, France
	Creative Design for MSc students, University Paris-Sud, Orsay, France
	Design Project for MSc students, University Paris-Sud, Orsay, France
	Computer Graphics MSc students, University Paris-Sud, Orsay, France
	Supervision of one PHD student and three Master students at LRI, INRIA, Orsay, France
2013-2015	Co- Supervision of MSc and PhD Students in the MovingStories Project.
2012-2013	Introduction to Computer Science for undergraduate students, Polytech Paris-Sud, Orsay, France
	Computer Graphics lectures for undergraduate students, Polytech Paris-Sud, Orsay, France
	Computer Graphics lectures for MSc students, Polytech Paris-Sud, Orsay, France
2010-2011	Algorithms for undergraduate students, Polytech Paris-Sud, Orsay, France
	Computer Graphics in OpenGL for undergraduate students, Polytech Paris-Sud, Orsay, France
	Human Computer Interaction for undergraduate students, Polytech Paris-Sud, Orsay, France
2009-2010	Programming in C++ for MSc students, Polytech Paris-Sud, Orsay, France
	Programming in C++ for MSc students, Polytech Paris-Sud, Orsay, France
	Algorithms for undergraduate students, Polytech Paris-Sud, Orsay, France
	Computer Graphics in OpenGL for undergraduate students, Polytech Paris-Sud, Orsay, France
	Supervision of two first year Master students, Julien Pousse and Quentin Vidal, for 3 months internships in Computer Graphics in the Cloud project at Limsi-CNRS, Orsay, France

Reviewing Activities

Member of Steering committee, chair and reviewer of MOCO 2014, 2015, 2016, 2017.

Reviewer for the ACM CHI 2013, 2014, 2015, 2016, 2017.

Program Committee Member for the Art.CHI of ACM CHI 2017

Program Committee Member for the Works-in-Progress of ACM CHI 2012, 2013, 2014, and 2015

Reviewer for the TEI 2015 and 2016.

Program Committee Member for the Pictorials of ACM DIS 2015, 2016.

Program Committee Member of NIME 2011, 2012, 2013 and 2014.

Reviewer for ISEA 2015

Reviewer for the journal Computers in Entertainment.

Reviewer for the TSI journal, special issue in Arts and Sciences

Publications List

PhD Thesis

Sarah Fdili Alaoui, "Dance gesture analysis and physical models based visual feedback: contribution of movement qualities to interaction", Defended on the 19th of December 2012 at LIMSI-CNRS, Ircam, University Paris-Sud, France.

Journal Papers, Peer Reviewed

- Sarah Fdili Alaoui, Frederic Bevilacqua, Christian Jacquemin, "Interactive Visuals as Metaphors for Dance Movement Qualities", Accepted to Transactions on Interactive Intelligent Systems (TIIS) 2014.

- Sarah Fdili Alaoui, Cyrille Henry, Christian Jacquemin, "Physical Modelling for Interactive Installations and the Performing Arts", International Journal of Performance Arts and Digital Media (IJPADM) 2014.

- Sarah Fdili Alaoui, Frédéric Bevilacqua, Bertha Bermudez, Christian Jacquemin, "Dance Interaction with Physical Model Visualization based on Movement Qualities", International Journal of Arts and Technology (IJART) 2013.

- Nathalie Delprat, Claire Leroux, Sarah Fdili Alaoui, "Experience of a cloud-avatar: scientific challenges and artistic perspectives", International Journal Of Design and Innovation Research, (IJODIR) 2011.

- Bertha Bermudez, Scott deLahunta, Marijke Hoogenboom, Chris Ziegler, Frédéric Bevilacqua, Sarah Fdili Alaoui, Barbara Meneses Gutierrez "The Double Skin/Double Mind Interactive Installation", Journal for Artistic Research (JAR) 2011.

Book Chapter

Frederic Bevilacqua, Norbert Schnell, Sarah Fdili Alaoui, "Gesture Capture: Paradigms in Interactive Music/Dance Systems", TanzKongress-press 2011.

International Conference Publications, Peer Reviewed

- Sarah Fdili Alaoui, Jules Françoise, Thecla Schiphorst, Karen Studd, Fréderic Bevilacqua " Seeing, Sensing and Recognizing Laban Movement Qualities", In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI), Denver, 2017.

- Jules Françoise, Yves Candau, Sarah Fdili Alaoui, Thecla Schiphorst, " Designing for Kinesthetic Awareness: Revealing User Experiences through Second-Person Inquiry", In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI), Denver, 2017.

- Marianela Ciolfi Felice, Sarah Fdili Alaoui, Wendy E. Mackay, "How Do Choreographers Craft Dance: Designing for a Choreographer-Technology Partnership", International Workshop on Movement and Computing (MOCO), Thessaloniki, 2016.

- Sarah Fdili Alaoui, Kristin Carlson, Shannon Cuyckendal, Karen Studd, Karen Bradley, Thecla

Schiphorst "How Do Experts Observe Movement", In proceedings of the International Workshop on Movement and Computing (MOCO), 2015, Vancouver, Canada.

- Sarah Fdili Alaoui, Thecla Schiphorst, Shannon Cuyckendal, Kristin Carlson, Karen Studd, Karen Bradley, "Strategies for Embodied Design: The Value and Challenges of Observing Movement", In the Proceedings of the ACM Conference on Creativity and Cognition (C&C) 2015, Glasgow, Scotland.

- Sarah Fdili Alaoui, Roxanne Nesbitt, "Self and Self Portraits", Canadian Society of Dance Studies Symposium on Embodied Artful Practices, 2014, Vancouver, Canada.

- Jules Francoise, Sarah Fdili Alaoui, Frederic Bevilacqua, Thecla Schiphorst, "Vocalizing Movement for Laban Effort Sonification in Dance Pedagogy", Proceedings of ACM conference on Designing Interactive Systems (DIS), Vancouver, 2014.

- Sarah Fdili Alaoui, Kristin Carlson and Thecla Schiphorst "Choreography as Mediated through Compositional Tools for Movement: Constructing A Historical Perspective", Proceedings of the International Workshop on Movement and Computing (MOCO), Paris, 2014.

- Diego Silang Maranan, Sarah Fdili Alaoui, Thecla Schiphorst, Philippe Pasquier, Pattarawut Subyen, Lyn Bartram. "Designing For Movement: Evaluating Computational Models using LMA Effort Qualities", Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), Toronto, 2014.

- Sarah Fdili Alaoui, "Body Movement Expression as Interaction Modality", Beautiful Dance Moves workshop, ACM Conference on Creativity & Cognition (C&C), Sydney, 2013.

- Sarah Fdili Alaoui, Christian Jacquemin, Frédéric Bevilacqua. "Chiselling Bodies: an Augmented Dance Performance", Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2013, Paris, France.

- Sarah Fdili Alaoui, Baptiste Caramiaux, Marcos Serrano, Frédéric Bevilacqua. "Movement qualities as interaction modality", Proceedings of ACM Conference on Designing Interactive Systems (DIS) 2012, Newcastle, United Kingdom. Honourable Mention.

- Sarah Fdili Alaoui, "Evaluating an Interactive Installation for Dance Pedagogy: The Case Study of Double Skin/Double Mind", Doctoral Consortium of ACM Conference on Designing Interactive Systems (DIS) 2012, Newcastle, United Kingdom.

- Baptiste Caramiaux, Sarah Fdili Alaoui, Tifanie Bouchara, Marc Rébillat. "Gestural Auditory and Visual Interactive Platform", Proceedings of Digital Audio Effects (Dafx) 2011, Paris, France.

- Sarah Fdili Alaoui, Baptiste Caramiaux, Marcos Serrano. "From dance to touch: movement qualities for interaction design", Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2011, Vancouver, Canada.

- Nathalie Delprat, Claire Leroux, Sarah Fdili Alaoui, "In the clouds, Virtual experience of a matter", Proceedings of Virtual Reality International Conference (VRIC) 2011, Laval, France.