Hanan (Anna) Salam

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Nationality: French/Lebanese

Keywords

Human-Machine Interaction, Human-Robot Interaction, Affective Computing, Social Signal Processing, Social Robotics, User-Centered Computing, Machine Learning, Image and Signal Processing, Artificial Intelligence, Data Science

Academic Background

2011 – 2013 **PhD Degree in Telecommunications, Information and Communication Sciences and Technologies (STIC)**, *IETR, SCEE, CentraleSupélec*, Rennes, France, Highest honors
Title : Multi-object modeling of the face. Defended on December 20, 2013.
Supervisors : Renaud SEGUIER, Christophe MOY.

2010 – 2011 **Master's degree in Control, Robotics, Signal and Image Processing**, *IRCCyN, École Centrale de Nantes*, Nantes, France
Master Thesis : Cracks detection in road images using Markov models.
Supervisors: Jérôme IDIER, Sylvie CHAMBON.

2006 – 2010 **Engineering degree in Telecommunications and Computer Science**, *Lebanese University*, Beirut, Lebanon

Professional Experience

Jan 2023 – Present **Assistant Professor of Computer Science, Tenure-Track**, New York University, Abu Dhabi, UAE

2021 – 2022 **Assistant Professor of Computer Science, Emerging Scholar**, New York University, Abu Dhabi, UAE

2019 – 2020 **Associate Professor in Artificial Intelligence and Data Science**, Emlyon Business School, Lyon, France

2011 – 2018 **Part-Time Lecturer**
- École supérieure d'ingénieurs Léonard-de-Vinci (ESILV), Paris, France.
- University of Paris VIII, Paris, France.
- University of Pierre and Marie Curie, Sorbonne, Paris, France.
- University of Rennes I, Rennes, France.
- National Institute of Applied Sciences (INSA), Rennes, France.

2017 – Present **Co-founder and Head of Education and Research**, *Women in AI*

2017 – 2019 **Consultant in Artificial Intelligence and Data Science**, Paris, France
Slighter, Sylog.

2016 – 2017 **R&D Engineer in Artificial Intelligence and Robotics**, *Startup A.I.Mergence*, Paris, France
Research and development of Artificial Intelligence algorithms on an intelligent mobile robot for home surveillance.

2015 – 2016 **Contractual Assistant Professor (ATER)**, *UPMC, Sorbonne*, Paris, France

2014 – 2015 **Post-doctoral fellowship in Human-Robot Interaction**, *ISIR, UPMC, Sorbonne*, Paris, France

2009 – 2010 **Research internship in image processing**, *LCPC*, Nantes, France

Teaching Experience

NYUAD
- Discrete Mathematics (Spring 2021 and Spring 2022).

Emlyon Business School
- Python Data Analysis (24h x 3 Course, 3^{rd} year).
- Machine Learning (24h Course, 3^{rd} year).
- Artificial Intelligence Applications for Business (6h x 2 Course, 3^{rd} year).

ESILV
- Chatbots and Recommender Systems (81h labs, 4^{th} year engineering).
- Machine Learning (54h labs, 4^{th} year engineering).
- Opinion Mining (12h Course, 4^{th} year engineering).
- User Experience (12h Course, 4^{th} year engineering).

Université Paris st-Denis
- Content Management Systems (30h course, 2^{nd} year Bachelor's degree).
- Human-Computer Interaction and application for people with disabilities (80h course, 3^{rd} year Bachelor's degree).
- Assistive Technology for people with disabilities (80h course, 3^{rd} year Bachelor's degree).

Université Pierre et Marie Curie
- Pattern Recognition and Machine Learning (18h labs, 2^{nd} year Masters degree).
- Perception and Modeling of the Interaction (32h labs, 2^{nd} year Masters degree).
- Social Robotics (32 labs, 2^{nd} year Masters degree).
- Signals and Systems (20h labs, 2^{nd} year Masters degree).
- Imperative Programming in C (22h labs, 3^{rd} year Bachelor's degree).
- Programming for scientific computing (20h exercises session, 20h labs, 3^{rd} year Bachelor's degree).
- Simulation and advanced command of mecatronic systems (16h labs, 1^{st} year Masters degree).
- Image and audio signal processing (16h, labs, 1^{st} year Masters degree).
- Mini-projects (9h, 2^{nd} year Masters degree).
- Cursus Engineering Projects (48h, 1^{st} year Bachelor's degree).
- Integrative project (10h, 2^{nd} year Masters degree).
- Participation in the jury of Masters projects (6h, 1^{st} year Masters degree).

INSA of Rennes
- Geometrical optics (45h labs, 1^{st} year engineering).
- Engineering Techniques (9h labs, 1^{st} year engineering).
- Electrokinetics (36h labs, 1^{st} year engineering).
- Electronics (24h, labs, 2^{nd} year engineering).

Université de Rennes 1
- Office (18h labs, 1^{st} year Bachelor's degree).

Students Supervision

NYUAD

Undergraduate and Postdoctoral Researchers

- Himadri Mukherjee, Postdoctoral Researcher.
- Alia Waleed. *Capstone Project:* Automatic detection of students' engagement in online learning.
- Yuting Wang & Mohamed Basuouny. *Project:* Multimodal deep learning-based depression recognition.
- Akshat Tolta. *Project:* GUI development for depression recognition.
- Dania Herzalla. *Project:* EEG-based autism characterization in Human-Robot Interaction.
- Jennifer Zheng. *Project:* Design and update of SMART Lab website.
- Sarah Pardo (NYU Tandon School of Engineering). *Project:* EEG signals analysis for emotions recognition.
- Ryoji Kubo. *Project:* Automatic depression recognition with deep learning.
- Viswonathan Manoranjan (National Institute of Technology, Tiruchirappalli). *Project:* Personalised models for automatic self-reported personality recognition.
- Vetha Vikashini C. R. (Indian Institute of Technology, Guwahati). *Project:* Personalized models for productive engagement recognition in Human-Robot Interaction.
- Jialin Li, Nigel Lu, Scott Ye & Jiayao Jin (NYU Shanghai). Received the Deans' Undergraduate Research Fund (DURF). *Project:* Automatic detection of students' engagement in online learning.
- Saloni Rakholiya (National Institute Of Technology, Tiruchirapalli). *Project:* Automatic detection of students' engagement in online learning.

Emlyon

End-of-Studies Projects

- Moncef Bentchiki (Masters of General Management). *Project:* AI for driving Schneider Electric marketing strategy.
- Timothée Lamare & Eléonore Serge. *Project:* AI and Venture Capital.
- Leo Pertou, Sihem Boustique, & Kamal Nassif. *Project:* Impact of digital revolution on the economy.
- Jean-Philippe Robert & Valentin Roche. *Project:* A holistic AI-based approach for pharmacovigilance optimization from social media.

University of Pierre and Marie Curie

Master Sciences de l'ingénieur Spécialité Ingénierie des Systèmes Intelligents, *Parcours Image et Son pour les Systèmes Intelligents*

- Yasmen Alhabash. *Project:* User's engagement detection based on actions and gestures recognition in Human-Robot Interaction.

Final Year Engineering Projects

- Implementation of a system of emotions and human behavior recognition.

M2 Parcours Systèmes et Applications Répartis (SAR), *Mini-Projects*, Duration: two and half months. Aims at introducing and initiating Masters students to the necessary tools required to carry out a research project.

- Daniel Motta de Alencar. *Project:* Survey on automatic detection of engagement in Human-Machine Interaction.
- Alexis Luu. *Project:* State of the art on context-based automatic human behavior and mental/emotional state detection systems.
- Younes Saadaoui. *Project:* Context in Social Signal Processing.

Cursus Master Ingénierie - Licence Sciences, Technologies, Santé

- Gaëlle Bezain, Anaïs Drihem, Wissam Taïbi, & Hanan Houria. *Project:* Context detection in Human-Robot Interaction.
- Solène Badibanga Kalenda & Pauline Lavalade. *Project:* Automatic detection of eyes movements in Human-Robot Interaction.
- Thomas Meunier & Virgile De La Rochefoucaud. *Project:* Context detection in Human-Robot Interaction.

Integrative Project, *Program aims at federating all or part of the students of the five specialties existing in the university, realized in groups of 4 to 8 students*

- Development of a world model called "Social World Model" based on the fusion of 3D data from several RGB-D sensors to describe the world in terms of the existing objects and people and the interaction between them.

A.I.Mergence

Final Year Engineering Projects

- Contextual identification of persons by a mobile security robot.

2^{nd} and 4^{th} Year Engineering Projects

- Detection of access paths of a house by a mobile security robot.
- Heloïse Morizet. Audio detection and localization by a mobile security robot.

Awards and Grants

2020 – Present **Member of the "Center of AI and Robotics" (CAIR)**

2021 **Winner of the ICCV 2021**, *DYAD challenge: Personality recognition track*, Personalised Models for Automatic Self-reported Personality Recognition

2021 **Best Reviewer Award**, *International Conference of Multimodal Interaction (ICMI) 2021*

2019 – 2021 **AI4EU**, *$100,000 Horizon 2020 Grant*

2012 **Winner of the International Audio/Visual Emotion Challenge and Workshop (AVEC)**

2011 **Second Place at the Facial Expression Recognition and Analysis Challenge (FERA)**

Publications

Book Chapters

[1] Marisa Tschopp and Hanan Salam. Spot on sdg 5: Addressing gender (in-)equality within and with ai. In Henrik Skaug Saetra, editor, *Technology and Sustainable Development: The Promise and Pitfalls of Techno-Solutionism*. Routledge, 2022.

Journals

[2] Hanan Salam, Oya Celiktutan, Gunes Hatice, and Mohamed Chetouani. Automatic context-driven inference of engagement in hmi: A survey. *IEEE Transactions on Affective Computing*, 2023. IF: 13.99.

[3] Valentin Roche, Jean-Philippe Robert, and Hanan Salam. A holistic ai-based approach for pharmacovigilance optimization from social media. *Artificial Intelligence in Medicine*, 2022.

[4] Hanan Salam. Distinguishing engagement facets: An essential component for ai-based healthcare. *arXiv preprint arXiv:2111.11138*, 2021.

[5] Ahmed Rachid Hazourli, Amine Djeghri, Hanan Salam, and Alice Othmani. Multi-facial patches aggregation network for facial expression recognition and facial regions contributions to emotion display. *Multimedia Tools and Applications*, 80(9):13639–13662, 2021.

[6] Muhammad Muzammel, Hanan Salam, and Alice Othmani. End-to-end multimodal clinical depression recognition using deep neural networks: A comparative analysis. *Computer Methods and Programs in Biomedicine*, page 106433, 2021.

[7] Himadri Mukherjee, Hanan Salam, and KC Santosh. Lung health analysis: adventitious respiratory sound classification using filterbank energies. *International Journal of Pattern Recognition and Artificial Intelligence*, 35(14):2157008, 2021.

[8] Muhammad Muzammel, Hanan Salam, Mohamed Chetouani, and Alice Othmani. Audvowelconsnet: a vowel-consonant based deep cnn architecture for automatic depression assessment. *Machine Learning with Applications*, 2020.

[9] Hanan Salam and Renaud Séguier. A survey on face modeling: building a bridge between face analysis and synthesis. *The Visual Computer*, 34(2):289–319, 2018.

[10] Hanan Salam, Oya Celiktutan, Isabelle Hupont, Hatice Gunes, and Mohamed Chetouani. Fully automatic analysis of engagement and its relationship to personality in human-robot interactions. *IEEE Access*, 5:705–721, 2017.

[11] Catherine Soladie, Hanan Salam, Nicolas Stoiber, and Renaud Séguier. Continuous facial expression representation for multimodal emotion detection. *International Journal of Advanced Computer Science*, 3(5):16, 2013.

[12] Hanan Salam, Renaud Seguier, and Nicolas Stoiber. Integrating head pose to a 3d multi-texture approach for gaze detection. *The International Journal of Multimedia & Its Applications*, 5(4):1–22, 2013.

[13] Thibaud Senechal, Vincent Rapp, Hanan Salam, Renaud Seguier, Kevin Bailly, and Lionel Prevost. Facial action recognition combining heterogeneous features via multikernel learning. *IEEE Transactions on Systems, Man, and Cybernetics, Part B (Cybernetics)*, 42(4):993–1005, 2012.

Conferences

[14] Vetha Vikashini Chithrra Raghuram*, Hanan Salam*, Jauwairia Nasir, Barbara Bruno, and Oya Celiktutan. Personalized productive engagement recognition in robot-mediated collaborative learning. In *Proceedings of the 2022 International Conference on Multimodal Interaction*, pages 632–641, 2022. Acceptance rate: 42%.

[15] Hanan Salam, Viswonathan Manoranjan, Jian Jiang, and Oya Celiktutan. Learning personalised models for automatic self-reported personality recognition. In *ICCV 2021 Workshops. Understanding Social Behavior in Dyadic and Small Group Interactions*, pages 53–73. Proceedings of Machine Learning Research 2021 (PMLR), 2022.

[16] Muhammad Muzammel, Alice Othmani, Himadri Mukherjee, and Hanan Salam. Identification of signs of depression relapse using audio-visual cues: A preliminary study. In *34th International Symposium on Computer-Based Medical Systems (CBMS)*, pages 62–67. IEEE, 2021.

[17] Himadri Mukherjee, Hanan Salam, Alice Othmani, and KC Santosh. How intense are your words? understanding emotion intensity from speech. In *2021 IEEE 21st International Conference on Communication Technology (ICCT)*, pages 1280–1286. IEEE, 2021.

[18] Filip Bendevski, Jumana Ibrahim, Tina Krulec, Theodore Waters, Nizar Habash, Hanan Salam, Himadri Mukherjee, and Christin Camia. Towards automatic narrative coherence prediction. In *Proceedings of the 2021 International Conference on Multimodal Interaction*, pages 539–547, 2021.

[19] Eva Thelisson, Kshitij Sharma, Hanan Salam, and Virginia Dignum. The general data protection regulation: An opportunity for the hci community? In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems*, page W36. ACM, 2018.

[20] Hanan Salam and Mohamed Chetouani. Engagement detection based on mutli-party cues for human robot interaction. In *Affective Computing and Intelligent Interaction (ACII), 2015 International Conference on*, pages 341–347. IEEE, 2015.

[21] Rodie Cowie, Ursula Hess, Shlomo Hareli, Maria Francesca O'Connor, Laurel D Riek, Louis-Philippe Morency, Jonathan Aigrain, Severine Dubuisson, Marcin Detyniecki, Mohamed Chetouani, et al. Cbar 2015: Context based affect recognition. 2015.

[22] Mohamed Chetouani, Giovanna Varni, Hanan Salam, Zakia Hammal, and Jeffrey F Cohm. The first international workshop on modeling interpersonal synchrony (interpersonal 2015). In *Proceedings of the 1st Workshop on Modeling INTERPERsonal SynchrONy And infLuence*, pages 1–2. ACM, 2015.

[23] Hanan Salam and Mohamed Chetouani. A multi-level context-based modeling of engagement in human-robot interaction. In *Automatic Face and Gesture Recognition (FG), 2015 11th IEEE International Conference and Workshops on*, volume 3, pages 1–6. IEEE, 2015.

[24] Hanan Salam and Renaud Seguier. A 3d-eyeball/skin decorrelated active appearance model. In *IEEE/IIAE ICISIP 2013*, pages 1–8, 2013.

[25] Salvatore M Anzalone, Marie Avril, Hanan Salam, and Mohamed Chetouani. Imi2s: a lightweight framework for distributed computing. In *International Conference on Simulation, Modeling, and Programming for Autonomous Robots*, pages 267–278. Springer, 2014.

[26] Hanan Salam, Nicolas Stoiber, and Renaud Séguier. A multi-texture approach for estimating iris positions in the eye using 2.5 d active appearance models. In *Image Processing (ICIP), 2012 19th IEEE International Conference on*, pages 1833–1836. IEEE, 2012.

[27] Catherine Soladié, Hanan Salam, Catherine Pelachaud, Nicolas Stoiber, and Renaud Séguier. A multimodal fuzzy inference system using a continuous facial expression representation for emotion

detection. In *Proceedings of the 14th ACM international conference on Multimodal interaction*, pages 493–500. ACM, 2012.

[28] Thibaud Senechal, Vincent Rapp, Hanan Salam, Renaud Seguier, Kevin Bailly, and Lionel Prevost. Combining aam coefficients with lgbp histograms in the multi-kernel svm framework to detect facial action units. In *2011 IEEE International Conference on Automatic Face & Gesture Recognition and Workshops (FG 2011)*, pages 860–865. IEEE, 2011.

[29] Vincent Rapp, Thibaud Sénéchal, Lionel Prevost, Kevin Bailly, Hanan Salam, and Renaud Seguier. Combinaison de descripteurs hétérogenes pour la reconnaissance de micro-mouvements faciaux. In *RFIA 2012 (Reconnaissance des Formes et Intelligence Artificielle)*, pages 978–2, 2012.

[30] Hanan Salam, Renaud Seguier, and Nicolas Stoiber. Détection de l'iris dans des visages de pose quelconque: approche multi-textures et modèles actifs d'apparence 2.5 d. In *GRETSI 2013*, page nc, 2013.

Academic and Creative Convening

Research Seminars & Conference Presentations

Nov 2022 **ICMI 2022**, *Personalized Productive Engagement Recognition in Robot-Mediated Collaborative Learning*, Bengaluru, India

Nov 2022 **HBKU**, *Social Machines & Robotics: Learning Personalized Models for Automatic Recognition of Social Signals*, Doha, Qatar

Feb 2022 **NYUAD Psychology Seminar Series**, *Social Machines & Robotics: Learning Personalized Models for Automatic Recognition of Social Signals*, NYUAD

Nov 2021 **Huawei's Seeds for the Future Program**, *Keynote: Artificial Social Intelligence*, China (online)

Oct 2021 **21st IEEE International Conference on Communication Technology (ICCT 2021)**, *How intense are your words? Understanding emotion intensity from speech*, Tianjin, China (online)

Oct 2021 **ICCV 2021**, *Understanding Social Behavior in Dyadic and Small Group Interactions Workshop at ICCV. Personalised Models for Automatic Self-reported Personality Recognition*, Online

May 2021 **ETIS seminar**, *Building socially intelligent machines: Automatic human behavior understanding in HCI*, ENSEA Cergy France

Apr 2016 **Village robotique**, *Cité de la science et de l'industrie*, Presentation of research in robotics conducted at ISIR

2014 **Fête de la science**, *ISIR, UPMC*, Presentation of the research activities of team IMI2S

Jun 2012 **Poster**, *A multi-texture approach for iris position detection using Active Appearance Models "*, Journée Des Doctorants (JDD), Central-Supélec (ex.Supélec)

Mar 2012 **Seminar**, *Iris position estimation using a Multi-Texture Active Appearance Model*, Centrale Supélec, team SCEE

Jun 2011 **Oral Presentation**, *2D/3D Object Modeling of facial features using AAM*, Journée Des Doctorants (JDD), Central-Supélec (ex.Supélec)

May 2011 **Seminar**, *2D/3D Object modeling of facial features using AAM*, Central-Supélec, team SCEE

Invited Talks

Oct 2022 **GITEX**, *Panel discussion: Female funding*, Dubai, UAE

Mar 2022 **7th Joint UAE Symposium on Social Robotics**, *Keynote: Social Machines & Robotics: Learning Personalized Models for Automatic Recognition of Social Signals; Panel discussion: Inclusiveness, fairness, and equality in robotics research and through robots applications*, French and Australian pavilions, Expo 2020

Dec 2021 **IEEE Global Conference on Artificial Intelligence & Internet of Things**, *Panel discussion: Women in AI Status, Challenges, and Recommendations*, Dubai (online)

Dec 2021 **Opportunities and Challenges in AI Research**, *Keynote: Global perspective of challenges for women in AI*, Sweden (online)

Nov 2021 **Sophia Summit**, *Panel discussion: The sustainable AI round table*, Sophia Antipolis, France

Nov 2021 **The AI Journey Conference (40+ million participants)**, *Keynote: Bias in AI & its relationship to ESG*, Russia (online)

Oct 2021 **Food for Thought in Faculty Advancement: Get Social!**, *Panel discussion: Promoting Academic Profiles on Social Media*, NYUAD

Feb 2021 **OECD International Conference on AI in Work, Innovation, Productivity and Skills**, *Panel discussion: The human capital behind AI*, Online

Dec 2020 **AI and Equality Hackathon**, *Judge*

Sep 2020 **ECAI Digital**, *Panel discussion: Women in AI time*, Online

Jun 2020 **The AI Governance Forum**, *Panel discussion: AI Applications and Digital Ethics*, Online

Oct 2019 **Arab Artificial Intelligence Summit**, *Panel discussion: Preparing the future generation: AI education*, Amman, Jordan

Oct 2019 **CyFy**, *Panel discussion: Autonomous Societies Encoding Bias*, New Delhi, India

Oct 2019 **World Summit AI**, *Panel discussion: AI in Education, from Personalised Programs to Intreconnected Campuses*, Amsterdam, Netherlands

Apr 2019 **Silk Road Startup**, *Keynote: Why We Need Women in AI*, Kish Island, Iran

Mar 2019 **Arab startup competition 12th edition**, *Panel discussion: Building on AI in Education to Prepare Tomorrow's Workforce*, Beirut, Lebanon

Mar 2019 **Mobile Learning Week. UNESCO**, *Panel discussion: Ensuring inclusive and equitable use of Artificial Intelligence in education*, Paris, France

Jan 2019 **WaiTALK. Applied ML Days**, *Panel discussion: The future of Digital Assistants: Hype vs. Reality*, Lausanne, Switzerland

Jan 2019 **UCC**, *Keynote: Bias in AI*, Cork, Ireland

Jan 2019 **MGEN: Le numérique et l'humain**, *Panel discussion: Le pouvoir des algorithmes*, Paris, France

Nov 2018 **6th OECD World Forum on Statistics, Knowledge and Policy: The Future of Well-being**, *Panel discussion: Artificial Intelligence and well-being*, Seoul, Korea

Nov 2018 **Microsoft experiences 18**, *Panel discussion: The IA culture Jobs of tomorrow, new skills, career opportunities*, Microsoft Paris, France

Sep 2018 **ANIMATAS summer school**, *Keynote: Tackling gender bias in AI*, Paris, France

Jul 2018 **AI Fest**, *Keynote: Tackling gender bias in AI*, Montreal, Canada

Mar 2018 **Tour de France de l'égalité femmes/hommes**, *Panel discussion: La voie scientifique et si on parlait d'égalité?*, Lycée Jacques-Prévert de Longjumeau, France

Oct 2017 **Webrazzi Summit**, *Panel discussion: Reverse-Engineering AI*, Instanbul, Turkey

Mar 2017 **France Intelligence Artificielle**, *Cité de la science et de l'industrie*, Presentation of E-phore: the intelligent home security robot

Nov 2017 **RoboNumérique**, *Saint Quentin*, Presentation of E-phore: the intelligent home security robot

Feb 2017 **8th edition of "Lab Postal 2017"**, *La Poste*, Presentation of E-phore: the intelligent home security robot

2015 **Fête de la science**, *ISIR, UPMC*, Welcome mediator

Jul 2013 **SSIP 2013 Summer School on image processing**, *Veszprém, Hungary*

Principal Co-organized International Events

Mar 27 2023 Co-organizer of ITAH 2023@IUI 2023. 1^{st} International Workshop on Interactive Technologies for AI in Healthcare: Diagnosis, Management, and Assistance. In conjunction with ACM IUI 2023, Sydney, Australia.

Dec 12 2022 Co-organizer of the Birds of a Feather (BoF) Session@EMNLP 2022. Expanding Horizons for Female Researchers in AI/NLP. In conjunction with EMNLP 2022, Abu Dhabi, UAE.

Sep 01 2022 Co-organizer of WaiTIME@ECAI 2020. Women in AI Time. In conjunction with ECAI 2020, Online.

Jul 23 2022 Co-organizer of the D&I seminar@IJCAI-ECAI 2022. Towards Diversity, Equity and Inclusion in AI Research. In conjunction with IJCAI-ECAI 2022, Vienna, Austria.

Apr 22 2018 Co-organizer of CHI-GDPR@CHI 2018. The General Data Protection Regulation: An opportunity for the CHI community?. In conjunction with CHI 2018, Montreal, Canada.

Nov 13 2015 Co-organizer of INTERPERSONAL@ICMI 2015. 1^{st} International Workshop on Modeling Interpersonal Synchrony. In conjunction with ICMI 2015, Seattle, USA.

Sep 21 2015 Co-organizer of ENHANCE@ACII 2015. 1^{st} International Workshop on Engagement in HumAN Computer IntEraction. In conjunction with ACII 2015, Xian, China.

2015 Assistance in the organization of the SMART Summer School on Computational Social and Behavioral Sciences, ISIR, UPMC

Jun 2012 Organization of the IETR doctorants day, Centrale Supélec, Nantes, France

International Research Stays

Jun 2020 **Invited researcher**, *NYU Courant*, New York, Stay duration: 1 month

Nov 2022 **Invited researcher**, *HBKU*, Doha, Qatar, Stay duration: 1 week

Jun – Jul 2022 **Invited researcher**, *Sorbonne University*, Institut des Systèmes Intelligents et de Robotique (ISIR), Paris, France, Stay duration: 1 month

Apr – May 2016 **Invited researcher**, *University of Cambridge*, Computer Laboratory, Cambridge, UK, Stay duration: 2 weeks

Jul 2015 **Invited researcher**, *Queen Mary University of London*, School of Electronic Engineering and Computer Science, London, UK, Stay duration: 1 week

University and Community Service

2022 – Present **Committee Member, Education and Early Career Committee**. Association for the Advancement of Affective Computing (AAAC).

2022 – 2023 **Journal Topic Editor**. Frontiers in Artificial Intelligence. Topic: Deep Learning-Based Healthcare Data Analytics.

2021 – 2023 **Research proposals reviewer**. Panel member Technological sciences expert panel. FWO's funding program on Strategic Basic Research (SBO) of the Research Foundation – Flanders (FWO).

2022
- **Jury member of Master's thesis** of Georges Kamal Hachache. Faculty of Computer Studies, Arab Open University.
- **Judge** at HackAD, NYUAD.

2021
- **Member of the development team of the "Master in Interdisciplinary Data Science" (submitted) proposal**.
- **Member of the development team of the "PhD in AI and Robotics" (submitted) proposal.**
- **Member of the development team of the "Center of Data Science" (in preparation) pre-proposal.**
- **Judge**. Global Undergraduate Research Award.
- **Faculty Advisory Panel**. Partner in Publishing.
- **Associated member of the Technological change, sustainability, and society (TCSS) research group**, Ostfold University College.

2019 – 2021 **Project lead and Co-Chairman of the Gender Committee**. AI4EU - Europe's AI-on-Demand Platform. AI4EU is the European Commission funded project for the purpose of creating an on-demand platform for AI for Europe. The Gender Committee oversees all gender diversity and inclusion related activities in the project in order to have a wide impact on increasing the gender equality in AI.

2013 – Present **Reviewer for Journals:** IEEE Transactions on Affective Computing (TAC), IEEE Access, ACM Transactions on Interactive Intelligent Systems (TiiS), Cognitive Systems Research (COGSYS), Frontiers in Robotics and AI, Frontiers of Information Technology & Electronic Engineering, Language Resources and Evaluation (LREV), Springer Nature Computer Science (SNCS)

2013 – Present **Reviewer for Conferences:** IEEE RO-MAN, AAAC International Conference on Affective Computing and Intelligent Interaction (ACII), IEEE International Symposium on Computer Based Medical Systems (CBMS), IEEE International Conference Automatic Face and Gesture (FG), ACM International Conference on Multimodal Interaction (ICMI), Proceedings of Machine Learning Research (PMLR), ACM ICMI Workshop: Socially-Informed AI for Healthcare, International Conference on Interfaces and Human Computer Interaction (IHCI), ICPR 12th International Workshop on Human Behavior Understanding (HBU), IEEE Robotics and Automation Society (IROS), ACM/IEEE Human Robot Interaction (HRI), AAAC ACII Workshop: Affective Robotics for Well-being (AR4W).

2013 **Elected Member of the advisory board of the doctoral school MATISSE.**

2011 – 2013 **Administrator and animator of the online social networks of the IETR PhD students association ADDI.**

Contribution to Diversity & Inclusion in STEM Fields

2017 – 2023
- Organization and animation of workshops in high schools for the orientation of young girls to STEM professions and especially the field of AI through educational robotics.
- Organization of several events on AI and highlighting women specialized in AI.
- Elaboration of an educational and training program (WAI2GO) on AI targeting different age groups and levels of knowledge in AI.
- Vulgarisation of AI in several international conferences for entrepreneurs.
- Development of long-term and short-term partnerships with companies (Microsoft, Thales, etc.) around education and increasing the participation and representation of women in the field of AI.

Technical and Linguistic Skills

Programming	C/C++, Java, XML, XSD, Python, Fortran95, Shell Unix, SQL, MySQL.
Distributed computing Platforms	Robotics Operating System (ROS), IMI2S platform.
Data processing	Machine Learning, Pattern Recognition, Image Analysis and synthesis, Optimization, Segmentation, Filtering.
Machine Learning	Torch, Weka, RapidMiner, Classification Learner.
Telecom	Signal processing, Analog and numerical Communications, Encoding, Antennas satellite and radar, Fiber optics, Micro-waves.
Tools	Matlab/Simulink, PSpice, Labview, Office, Latex.
Operating Systems	Windows, Linux, Unix.
Developer software	Microsoft Visual Studio, Eclipse, Code::Blocks.
Informatics	Analog electronics, Logical circuits, Micro-controllers.
Languages	French: Fluent; English: Fluent; Arabic: Native.