

Iván López

Ph.D.

contact

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Denmark

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languages

Spanish (native)
English (high)
Danish (elementary)

programming

MATLAB
JAVA, L^AT_EX, Python
C, C++, VHDL, R
HTK, Mathematica
LabView, J2ME
Assembler

interests

Statistical signal processing, Bayesian estimation, robust speech recognition, speaker verification, audio treatment, speech enhancement

education

- 2015-2016 **University Expert Diploma in Advanced Methods of Applied Statistics**
National University of Distance Education
Postgraduate course with 25 ECTS credits aimed at learning advanced statistical methods, both conceptually and in terms of their applications.
- 2013-2017 **Doctor of Philosophy (Ph.D.), Information and Communication Technologies (International Mention)**
University of Granada, Granada
Thesis titled "Robust Speech Recognition on Intelligent Mobile Devices with Dual-Microphone" (Score: Excellent Cum Laude). Research lines: acoustic noise estimation, robust speech recognition, treatment of speech distortions in mobile devices with several microphones.
- 2011-2012 **Master in Multimedia Technologies**
University of Granada, Granada
Focused on robust speech recognition in noisy environments through the project "Acoustic Noise Estimation by Using Particle Filters for Robust Speech Recognition" (Score: 10/10).
- 2011-2013 **Electronics Engineer**
University of Granada, Granada
Final project titled "Soft-Mask Generation for Feature Compensation in Robust Speech Recognition" (Score: 10/10).
- 2006-2011 **Telecommunications Engineer**
University of Granada, Granada
Focused on signal processing. "HMM-Based Query-by-Humming" was my final degree project that consisted of the development of a query-by-humming system based on hidden Markov models (Score: 10/10).
- 1996-2005 **Violin**
Professional Conservatory of Music Ángel Barrios, Granada
Up to 4th course of intermediate level. Participation in 2003 as a concert violinist with the OCG (Orquesta Ciudad de Granada) in the "3rd Family Concert" under the direction of Guy Van Waas from Belgium within the program *Youth in OCG*.

complementary formation

- 08/2021 **AAU Marie Curie Talent Course**
Kwintessence and Aalborg University
Course with a focus on how to prepare a successful Marie Skłodowska-Curie Postdoctoral Fellowship application.
- 2020-2021 **Danish Language**
Sprogcenter, Aalborg
Official courses offered by the State of Denmark for learning the Danish language. Modules completed: 2/5.

- 03-04/2019 **Basic Course with Focus on PBL** Aalborg University, Aalborg
The objective of this 2 day-course is to provide the participants with the insight and the skills necessary to conduct effective PBL (Problem-Based Learning) project facilitation at Aalborg University.
- 01-02/2019 **Deep Learning** Coursera
An online non-credit course authorized by deeplearning.ai and offered through Coursera comprising the following five modules: "Neural Networks and Deep Learning", "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization", "Structuring Machine Learning Projects", "Convolutional Neural Networks" and "Sequence Models".
- 11/2018 **How to Lead People and Teams** The Navarre Marketing Club, Pamplona
8-hour course whose main objectives are to internalize the difference between directing and leading people as well as knowing the basic aspects of leadership.
- 10/2018 **How to Direct People in Times of Change** The Navarre Marketing Club, Pamplona
8-hour course whose main objectives are to understand and practice the proper way of managing people as well as knowing the basic functions of management.
- 02-06/2018 **Critical Analysis of Capitalism** Faculty of Economic and Business Sciences, Complutense University of Madrid, Madrid
Continuing Education Diploma of 150 hours for the study of the Marxist method and its application to the analysis of the current world economy.
- 04/2016 **Categorical Response Models with SPSS** Faculty of Economic and Business Sciences, University of Granada, Granada
Course for the Teaching and Research Staff with a duration of 12 hours intended for the theoretical and practical study (by using the software SPSS) of the logistic regression.
- 07/2015 **RTTH Summer School on Speech Technology: A Deep Learning Perspective** Spanish Thematic Network on Speech Technology, Polytechnic University of Catalonia, Barcelona
Four-day intensive course organized by the RTTH and the TALP Research Center of the Polytechnic University of Catalonia devoted to the main topics in the field of speech technology, with a focus on the application of deep learning to classification and modeling. Presentation of the poster "Noise-Robust ASR on Portable Electronic Devices with Small Microphone Array".
- 04-06/2015 **Introduction to Python** University of Granada Virtual Learning Center
Introductory course to the programming language Python in its 8th edition with a duration of 75 hours organized by the Free Software Office of the University of Granada.
- 09/2014 **Advanced Search Strategies in Scientific Research: The Use and Value of the IEEE Xplore Library** Institute of Electrical and Electronics Engineers (IEEE)
2nd edition of this webinar, with a duration of one hour, intended to take advantage of the IEEE Xplore digital library.
- 07/2013 **RTTH Summer School on Speech Technology Evaluation** Spanish Thematic Network on Speech Technology, Campus of the University of Vigo, Vigo
Five-day intensive course organized by the RTTH and the Group of Multimedia Technologies of the AtlantTIC Research Center of the University of Vigo to provide the most relevant aspects related to the evaluation of speech technology. Presentation of the poster "Acoustic Noise Estimation for Robust Speech Recognition".

12/2012	Arduino Basic Course	Darwin Eventur, Faculty of Sciences, Granada
	Course lasting 15 hours intended for the familiarization, both hardware and software, with the Arduino platform through the implementation of programs and assemblies.	
2004-2005	Informatics	Private Teaching Center Juan XXIII-Zaidín, Granada
	Course with a duration of 100 hours oriented to: OS Windows, MS Word, MS Excel, web page creation on HTML and introduction to programming in C++.	

experience/contracts

01/2019 Present	Aalborg University (Aalborg, Denmark)	Postdoctoral Researcher
	<i>Researching within the Centre for Acoustic Signal Processing Research (CASPR) that belongs to the Section for Artificial Intelligence and Sound of the Department of Electronic Systems. Research projects:</i>	
	- <i>“Low-Resource Keyword Spotting for Hearing Assistive Devices”</i> : It aims to develop personalized, noise-robust and super low-resource voice control systems for hearing assistive devices (using microphone signals and other modalities).	
	- <i>LEGO/Grundfos: Analysis of acoustic signals from different machinery.</i>	
	- <i>“Intelligibility-Aware Hearing Assistive Devices”</i> : It aims to build speech intelligibility enhancement systems that perform optimally with respect to state-of-the-art speech intelligibility predictors.	
01/2018 11/2018	Veridas - BBVA Group (Navarre)	Coordinator of the Speech Technology Group
	<i>Management, research and integration tasks around the development of voice biometrics and other speech technologies.</i>	
02/2017 12/2017	das-Nano (Navarre)	Biometrics Engineer
	<i>Development and integration of speaker verification algorithms and speech recognition methods.</i>	
07/2015 02/2017	University of Granada (Granada)	Researcher
	<i>Researching within the Department of Signal Theory, Telematics and Communications from the budget of the project TEC2013-46690-P. My work consists of the generation of multichannel noisy speech corpora as well as programming algorithms developed under the project and executing recognition tests.</i>	
05/2015 08/2015	University of Sheffield (Sheffield, UK)	Visiting Researcher
	<i>Performing research activities within the SPandH (Speech and Hearing) Group of the University of Sheffield on noise-robust speech recognition by using the framework CHiME-3 developed in that research group.</i>	
03/2015 06/2015	University of Granada (Granada)	Researcher
	<i>Researching within the Department of Signal Theory, Telematics and Communications from the budget of the Research Group TIC-234. My work consists of the generation of a noisy speech corpus, acquired with smartphones with small microphone arrays, intended for the evaluation of noise-robust ASR techniques.</i>	
02/2013 02/2014	University of Granada (Granada)	Researcher
	<i>Researching within the Department of Signal Theory, Telematics and Communications from the budget of the INNFACTO project “Voice Biometrics to Guarantee the Security of Enterprise Applications - SecuVoice”. My work consists of the research and development of noise estimation techniques, for robust speech recognition, and speaker recognition and verification techniques.</i>	

08/2011
02/2012

Telefónica I+D (Granada)

Internship

Support tasks, documentation and research to develop new products in the field of telemedicine in Europe. 3D image processing for the generation of medical rehabilitation applications (RehabiTIC project).

participation in research projects

Project	A Giant Leap for Keyword Spotting (AGILE-KWS)
Funding	European Commission, Marie Curie Global Fellowships (HORIZON-MSCA-2021-PF-01), 286,191€ - Score: 100/100
Coordinator	Iván López Espejo
Duration	2022 - 2025
Project	Fusion of Classical and Deep Learning Techniques for Signal Processing (PID2019-104206GB-I00)
Funding	Ministry of Science and Innovation, National R&D Plan
Coordinator	Ángel Manuel Gómez García
Duration	2019 - 2022
Project	Research and Development of New Techniques Aimed at Strengthening Voice Biometrics Systems (PTQ-17-09315)
Funding	Ministry of Science and Innovation, Torres Quevedo
Coordinator	Ana Iriarte Ruiz
Duration	2018 - 2021
Project	New Integrated Connectionist Approaches for Signal Processing (TEC2016-80141-P)
Funding	Ministry of Science and Innovation, National R&D Plan
Coordinator	Victoria Eugenia Sánchez Calle
Duration	2016 - 2019
Project	New Approaches to Distortion Processing for Multimedia Applications over Intelligent Mobile Devices (TEC2013-46690-P)
Funding	Ministry of Science and Innovation, National R&D Plan
Coordinator	Victoria Eugenia Sánchez Calle
Duration	2013 - 2016
Project	SecuVoice: Voice Biometrics to Guarantee the Security of Enterprise Applications (IPT-2012-0082-390000)
Funding	Ministry of Economy and Competitiveness
Coordinator	Francisco Herrera Triguero
Duration	December 2012 - December 2015
Project	Personal Health Device for the Remote and Autonomous Management of Parkinson's Disease
Funding	European Commission
Coordinator	Polytechnic University of Catalonia (Joan Cabestany Moncusi)
Duration	November 2011 - April 2015
Project	Estimation Techniques and Treatment of Uncertainty for Signal Transmission and Recognition (TEC2010-18009)
Funding	Ministry of Science and Innovation, National R&D Plan
Coordinator	Antonio Miguel Peinado Herreros
Duration	2010 - 2013
Project	Integrated Network for Completely Assisted Senior Citizen's Autonomy
Funding	European Commission
Coordinator	Santer Reply
Duration	April 2010 – September 2012

Project	Home-based Empowered Living for Parkinson's Disease Patients (AAL-010000-2009-9)
Funding	<i>AAL Joint Programme from the Budget of the Ministry of Industry, Tourism and Commerce and the European Commission funds</i>
Coordinator	Telefónica I+D (Jordi Rovira Simón)
Duration	June 2009 – May 2012
Project	Enhanced Complete Ambient Assisted Living Experiment (AAL-010000-2009-13)
Funding	<i>AAL Joint Programme from the Budget of the Ministry of Industry, Tourism and Commerce and the European Commission funds</i>
Coordinator	Cetemmsa
Duration	June 2009 – May 2012

publications

journals

- Santi Prieto, Alfonso Ortega, **Iván López-Espejo** and Eduardo Lleida: “Shouted and Whispered Speech Compensation for Speaker Verification Systems”. *Digital Signal Processing*, vol. —, pp. —, —, 2022.
- **Iván López-Espejo**, Zheng-Hua Tan, John H. L. Hansen and Jesper Jensen: “Deep Spoken Keyword Spotting: An Overview”. *IEEE Access*, vol. 10, pp. 4169–4199, January 2022.
- **Iván López-Espejo**, Zheng-Hua Tan and Jesper Jensen: “A Novel Loss Function and Training Strategy for Noise-Robust Keyword Spotting”. *IEEE/ACM Transactions on Audio, Speech and Language Processing*, vol. 29, pp. 2254–2266, June 2021.
- **Iván López-Espejo**, Zheng-Hua Tan and Jesper Jensen: “Improved External Speaker-Robust Keyword Spotting for Hearing Assistive Devices”. *IEEE/ACM Transactions on Audio, Speech and Language Processing*, vol. 28, pp. 1233–1247, April 2020.
- Juan M. Martín-Doñas, Antonio M. Peinado, **Iván López-Espejo** and Ángel M. Gómez: “Dual-Channel Speech Enhancement Based on Extended Kalman Filter Relative Transfer Function Estimation”. *MDPI Applied Sciences*, vol. 9, June 2019.
- **Iván López-Espejo**, Antonio M. Peinado, Ángel M. Gómez and José A. González: “Dual-Channel Spectral Weighting for Robust Speech Recognition in Mobile Devices”. *Digital Signal Processing*, vol. 75, pp. 13–24, April 2018.
- **Iván López-Espejo**, Antonio M. Peinado, Ángel M. Gómez and José A. González: “Dual-Channel VTS Feature Compensation for Noise-Robust Speech Recognition on Mobile Devices”. *IET Signal Processing*, vol. 11, pp. 17–25, February 2017.
- **Iván López-Espejo**, Antonio M. Peinado, Ángel M. Gómez and Juan M. Martín-Doñas: “Deep Neural Network-Based Noise Estimation for Robust ASR in Dual-Microphone Smartphones”. *Lecture Notes in Artificial Intelligence*, vol. 10077, pp. 117–127, November 2016.
- Nadir Benamirouche, Bachir Boudraa, Ángel M. Gómez, José L. Pérez-Córdoba and **Iván López-Espejo**: “A Dynamic FEC for Improved Robustness of CELP-Based Codec”. *Lecture Notes in Artificial Intelligence*, vol. 10077, pp. 14–23, November 2016.
- **Iván López-Espejo**, José A. González, Ángel M. Gómez and Antonio M. Peinado: “A Deep Neural Network Approach for Missing-Data Mask Estimation on Dual-Microphone Smartphones: Application to Noise-Robust Speech Recognition”. *Lecture Notes in Artificial Intelligence*, vol. 8854, pp. 119–128, November 2014.

conferences

- Juan M. Martín-Doñas, Antonio M. Peinado, **Iván López-Espejo** and Ángel M. Gómez: “Dual-channel eKF-RTF Framework for Speech Enhancement with DNN-based Speech Presence Estimation”. *Proc. IberSPEECH*, Valladolid (Spain), March 2021.
- Santi Prieto, Alfonso Ortega, **Iván López-Espejo** and Eduardo Lleida: “Shouted Speech Compensation for Speaker Verification Robust to Vocal Effort Conditions”. *Proc. INTERSPEECH*, Shanghai (China), October 2020.
- **Iván López-Espejo**, Zheng-Hua Tan and Jesper Jensen: “Exploring Filterbank Learning for Keyword Spotting”. *Proc. EUSIPCO*, Amsterdam (The Netherlands), January 2021.
- **Iván López-Espejo**, Zheng-Hua Tan and Jesper Jensen: “Keyword Spotting for Hearing Assistive Devices Robust to External Speakers”. *Proc. INTERSPEECH*, Graz (Austria), September 2019.
- **Iván López-Espejo**, Santiago Prieto-Calero and Ana Iriarte-Ruiz: “X-Vector Speaker Verification System for NIST SRE 2018”. *NIST SRE 2018 Evaluation Workshop*, Athens (Greece), December 2018.
- Juan M. Martín-Doñas, **Iván López-Espejo**, Ángel M. Gómez and Antonio M. Peinado: “A postfiltering approach for dual-microphone smartphones”. *Proc. IberSPEECH*, Barcelona (Spain), November 2018.
- **Iván López-Espejo**, Antonio M. Peinado, Ángel M. Gómez, José A. González and Santiago Prieto-Calero: “Dual-Channel VTS Feature Compensation with Improved Posterior Estimation”. *Proc. EUSIPCO*, Rome (Italy), September 2018.
- Juan M. Martín-Doñas, **Iván López-Espejo**, Ángel M. Gómez and Antonio M. Peinado: “An Extended Kalman Filter for RTF Estimation in Dual-Microphone Smartphones”. *Proc. EUSIPCO*, Rome (Italy), September 2018.
- **Iván López-Espejo**, Juan M. Martín-Doñas, Ángel M. Gómez and Antonio M. Peinado: “Uncentred Transform-Based Dual-Channel Noise Estimation: Application to Speech Enhancement on Smartphones”. *Proc. TSP*, Athens (Greece), July 2018.
- Juan M. Martín-Doñas, Ángel M. Gómez, **Iván López-Espejo** and Antonio M. Peinado: “Dual-channel DNN-based Speech Enhancement for Smartphones”. *Proc. MMSP*, Luton (UK), October 2017.
- Juan M. Martín-Doñas, **Iván López-Espejo**, Carlos R. González-Lao, David Gallardo-Jiménez, Ángel M. Gómez, José L. Pérez-Córdoba, Victoria Sánchez, Juan A. Morales-Cordovilla and Antonio M. Peinado: “SecuVoice: A Spanish Speech Corpus for Secure Applications with Smartphones”. *IberSPEECH*, Lisbon (Portugal), November 2016.
- **Iván López-Espejo**, José A. González, Ángel M. Gómez and Antonio M. Peinado: “DNN-Based Missing-Data Mask Estimation for Noise-Robust ASR in Dual-Microphone Smartphones”. *UKSpeech*, Norwich (UK), July 2015.
- **Iván López-Espejo**, Ángel M. Gómez, José A. González and Antonio M. Peinado: “Feature Enhancement for Robust Speech Recognition on Smartphones with Dual-Microphone”. *Proc. EUSIPCO*, Lisbon (Portugal), September 2014.

book chapters

- Jorge Bachs Rubio, Ángel M. Gómez García, Antonio M. Peinado Herreros and **Iván López Espejo**: “Humming Composer para Android”. *Book of Final Degree Projects*, Dept. of STTC, 2014.

• José L. Carmona, Ángel M. Gómez, José A. González, Ján Koloda, Domingo López, **Iván López-Espejo**, Juan A. Morales-Cordovilla, Antonio M. Peinado, José L. Pérez-Córdoba and Victoria Sánchez Calle: “Estimación MMSE en Aplicaciones de Transmisión Multimedia”. *Juan Antonio Morente Chiquero: In Memoriam*, University of Granada Editorial, 2013.

patents

• **Iván López-Espejo**, Santiago Prieto Calero, Ana Iriarte Ruiz, David Roncal Redín, Miguel Á. Sánchez Yoldi and Eduardo Azanza Ladrón: “Authenticating a User”. WO 2020/007495 A1, January 2020.

others

• **Iván López-Espejo**: “End-to-End Deep Residual Learning with Dilated Convolutions for Myocardial Infarction Detection and Localization”. *arXiv:1909.12923*, September 2019.

participation in seminars, events of scientific dissemination and others

Event	CASPR-II Opening
Place / Date	<i>Aalborg University, Aalborg (Denmark) / November 2021</i>
Organizer	Artificial Intelligence and Sound
Participation	Attending this event with a duration of 1 day in relation to the research that is developed in the Artificial Intelligence and Sound section of Aalborg University. Presentation of the poster “Deep Spoken Keyword Spotting”.
Event	IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP `21)
Place / Date	<i>Toronto (Canada) / June 2021</i>
Organizer	IEEE Signal Processing Society
Participation	Chairing the poster session “MLSP-46: Theory and Applications”.
Event	Kick-off: AI for the People
Place / Date	<i>Aalborg University, Aalborg (Denmark) / November 2019</i>
Organizer	AI for the People Center
Participation	Attending this event with a duration of 1 day in relation to the setting up of the AI for the People Center. Presentation of the poster “Low-Resource Keyword Spotting for Hearing Assistive Devices”.
Event	Open House 2019
Place / Date	<i>Aalborg University, Aalborg (Denmark) / November 2019</i>
Organizer	Signal and Information Processing
Participation	Attending this event with a duration of 1 day in relation to the research that is developed in the Signal and Information Processing section of Aalborg University. Presentation of the poster “Low-Resource Keyword Spotting for Hearing Assistive Devices”.
Event	Danish Sound Day (DSD) 2019
Place / Date	<i>Aalborg University, Copenhagen (Denmark) / October 2019</i>
Organizer	Danish Sound Network
Participation	Attending this conference with a duration of 1 day in the field of sound. Presentation of the poster “Low-Resource Keyword Spotting for Hearing Assistive Devices”.

Event	CLAAUDIA Reproducible Research Workshop
Place / Date	<i>Aalborg University, Aalborg (Denmark) / February 2019</i>
Organizer	CLAAUDIA (Aalborg University)
Participation	Attending this workshop introducing principles, background and best-practices for reproducible research.
Event	University of Sheffield Engineering Symposium (USES) 2015
Place / Date	<i>The Octagon Centre, Sheffield (UK) / June 2015</i>
Organizer	University of Sheffield
Participation	Attending this symposium with a duration of 1 day which focuses on the benefits of interdisciplinary research.
Event	Seminar 'Robust Automatic Speech Recognition on Mobile Devices with Small Microphone Array'
Place / Date	<i>Dept. of Computer Science, Sheffield (UK) / June 2015</i>
Organizer	SPandH Research Group of the University of Sheffield
Participation	Lecturer (presentation about the latest advances on noise-robust speech recognition on mobile devices with several microphones).
Event	Free Project Days of the University of Granada
Place / Date	<i>Higher Technical School of Informatics and Telecommunications Engineering / October 2011</i>
Organizer	Free Software Office of the University of Granada
Participation	Lecturer (presentation about the fundamentals of the free software GuitarX Afinador).
Event	II CENTAC National Conference
Place / Date	<i>Cartuja Monastery, Andalusia Contemporary Art Centre, Seville / October 2011</i>
Organizer	National Centre for Technology Access (CENTAC)
Participation	Assistant of the lecturer (presentation of the statistical indoor location system that was developed for the '1st Technological Challenge' organized by the DSTTC of the University of Granada).
Event	Silicon-On-Insulator, Solutions for Future Electronics
Place / Date	<i>Parque de las Ciencias, Granada / January 2011</i>
Organizer	Department of Computer Electronics and Technology of the UGR
Participation	Attending this seminar with a duration of 6 hours belonging to the VII Workshop of the Thematic Network on Silicon On Insulator, Technology, Devices and Circuits under the congress EUROSOI 2011.

other projects

2011-2012	Synthesizer of Music Scores for Choir 2nd placed project at the '2nd Technological Challenge' organized by the DSTTC of the University of Granada, consisting of the development of an automatic synthesizer of music scores for choir.
01/2011	GuitarX Afinador (http://code.google.com/p/guitarx-afinador/) Program written in JAVA, to tuning guitars, released with the help of the Free Software Office of the University of Granada. Honor mention in PortalProgramas.

2010-2011

Statistical Indoor Location System

2nd placed project with a special mention from the jury (best theoretical solution) consisting of the development of an indoor location system for the '1st Technological Challenge' organized by the DSTTC of the University of Granada. My work consists of the design and deployment of the statistical modeling for the location recognition.

evaluation tasks

Journal referee Neural Networks (Elsevier), MDPI Sensors, MDPI Applied Sciences, IEEE Access, IEEE Transactions on Audio, Speech and Language Processing, Computer Speech & Language, MDPI Acoustics, Journal of Electrical and Computer Engineering, Digital Signal Processing (Elsevier), International Journal of Distributed Sensor Networks, IET Signal Processing, journals of the editorial 3ciencias, Computer Science and Applications, Ciencia e Ingeniería magazine (University of Los Andes) and Revista Mexicana de Física.

Conference referee IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC '15), ALLSENSORS 2016, International Conference on Artificial Neural Networks (ICANN '17), Interspeech 2018-2022, ICASSP 2021-2022, IberSPEECH 2020 and IEEE International Workshop on Machine Learning for Signal Processing (MLSP '21).

Other Jury member of the 3rd edition of the Degree and Master Final Project Awards organized by the DSTTC of the UGR and evaluator of the best journal article awards of the Spanish Thematic Network on Speech Technology.

management tasks

- Member of the Technical Program Committee of IberSPEECH 2020.
- Member of the Technical Program Committee of Interspeech 2018-2022.
- Member of the Technical Program Committee of ALLSENSORS 2016 (The First International Conference on Advances in Sensors, Actuators, Metering and Sensing).
- Member of the Steering Committee of the Department of Signal Theory, Telematics and Communications of the UGR since January of 2015 to December of 2016.
- Member of the Teaching Commission of the Department of Signal Theory, Telematics and Communications of the UGR since January of 2015 to December of 2016.
- Member of the Board of the Department of Signal Theory, Telematics and Communications of the UGR since December of 2014 to December of 2016.
- CITIC-UGR (Research Center for Information and Communications Technologies of the University of Granada) Central Board member since June of 2013 to February of 2017.

teaching tasks

taught subjects

Subject	Array and Sensor Signal Processing
Programme	<i>Various master's programmes (Aalborg University)</i>
Course/Credits	1st and 2nd/5 ECTS
Year	2021
Subject	CASPR Summer School on Signal Processing for Hearing Assistive Devices
Programme	<i>Ph.D. course (Aalborg University)</i>
Course/Credits	3 ECTS
Year	2021
Subject	Platforms and Methods for Multi-Modal System Architectures
Programme	<i>Master in Vision, Graphics and Interactive Systems (Aalborg University)</i>
Course/Credits	2nd/5 ECTS
Year	2020
Subject	Deep Learning
Programme	<i>Ph.D. course (Aalborg University)</i>
Course/Credits	2 ECTS
Year	2020, 2021 and 2022
Subject	Machine Learning
Programme	<i>Ph.D. course (Aalborg University)</i>
Course/Credits	3 ECTS
Year	2020 and 2022
Subject	Machine Learning
Programme	<i>Various master's programmes (Aalborg University)</i>
Course/Credits	1st and 2nd/5 ECTS
Year	2019
Subject	Profiling in Engineering Psychology
Programme	<i>Master in Engineering Psychology (Aalborg University)</i>
Course/Credits	1st/5 ECTS
Year	2019

codirection of degree final projects

Title	Speech Enhancement for Dual-Microphone Smartphones
University	<i>University of Granada</i>
Pupil	Miguel Molina Moreno
Date / Mark	07/2015 / Excellent

In addition to the above, I have participated as a censor in the evaluation of 3 master's projects at Aalborg University.

partnership agreements

Description	Distribution of the speech corpus SecuVoice
Researchers	<i>Antonio M. Peinado (Leader), Ángel M. Gómez and Iván López Espejo</i>
Entity	European Language Resources Association (ELRA)
Duration	26/07/2016 - Present

affiliations

Organization	Spanish Scientists in Denmark (CED)
Category	Member
Period	May 2021 - Present
Organization	AI for the People
Category	Member
Period	November 2019 - Present
Organization	ISCA (International Speech and Communication Association)
Category	Member
Period	June 2019 - June 2020
Organization	IEEE Signal Processing Society
Category	Member
Period	August 2017 - February 2018
Organization	IEEE (Institute of Electrical and Electronics Engineers)
Category	Member
Period	August 2017 - February 2018
Organization	SigMAT (Signal Processing, Multimedia Transmission and Speech/Audio Technologies) Research Group of the Junta de Andalucía (code TIC-234)
Category	Collaborator
Period	February 2017 - Present
Organization	IEEE Signal Processing Society
Category	Student member
Period	December 2014 - February 2016
Organization	EURASIP (European Association for Signal Processing)
Category	Student member
Period	October 2014 - Present
Organization	IEEE (Institute of Electrical and Electronics Engineers)
Category	Student member
Period	March 2014 - February 2016
Organization	Spanish Thematic Network on Speech Technology
Category	Member
Period	March 2013 - Present
Organization	SigMAT (Signal Processing, Multimedia Transmission and Speech/Audio Technologies) Research Group of the Junta de Andalucía (code TIC-234)
Category	Member
Period	February 2013 - February 2017

honors and awards

- Fellowship granted by Otto Mønstedts Fond for a research stay at the University of Texas at Dallas (USA).
- Special mention from the Best student journal paper award 2018 of the Spanish Thematic Network on Speech Technology for the paper “Dual-Channel Spectral Weighting for Robust Speech Recognition in Mobile Devices”.

- Best paper award at IberSPEECH 2016 for the paper “Deep Neural Network-Based Noise Estimation for Robust ASR in Dual-Microphone Smartphones”.
- Fellowship granted from the UNED Foundation in relation with the University Expert Diploma in Advanced Methods of Applied Statistics.
- Fellowship granted from the 2015 Special Research Programme of the UGR (“Short Stays”) for a research stay at the University of Sheffield (UK).
- Fellowship granted in the Santander Research Mobility Awards 2014-2015 for a research stay at the University of Sheffield (UK).
- Best student paper award at EUSIPCO 2014 for the paper “Feature Enhancement for Robust Speech Recognition on Smartphones with Dual-Microphone”.
- Project HELP (Home-based Empowered Living for Parkinson’s Disease Patients) winner of the 2nd edition of the AAL FORUM award held in Eindhoven (The Netherlands) during the AAL Joint Programme Forum 2012.

certificates

- Accredited by ANECA (Spanish National Agency for Quality Assessment and Accreditation) as Assistant Professor (2020).