



Mireia Farrús i Cabeceran

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Date of birth: June 26th, 1975

Place of birth: Barcelona, Catalonia

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EDUCATION

Universitat Politècnica de Catalunya <i>Ph.D. Department of Signal Theory and Communications</i>	Barcelona <i>October 2008</i>
Universitat de Barcelona <i>Bachelor of Linguistics</i>	Barcelona <i>September 2003</i>
Universitat de Barcelona <i>Bachelor of Physics</i>	Barcelona <i>July 1998</i>
Conservatori Superior Municipal de Música de Barcelona <i>Music - Piano & Singing Studies</i>	Barcelona <i>1984-1999</i>

PhD THESIS

Title: *Fusing Prosodic and Acoustic Information for Speaker Recognition*

Thesis supervisor: Dr. Javier Hernando

Jury of thesis defense: Dr. José B. Mariño, Dr. Climent Nadeu, Dr. Ramon Cerdà, Dr. Elisabeth Zetterholm, Dr. Javier Rodríguez-Saeta

Place: Department of Signal Theory and Communications, Universitat Politècnica de Catalunya

CURRENT PROFESSIONAL SITUATION

Institution: Universitat Pompeu Fabra

Department: Department of Information and Communication Technologies

Position: Ramón y Cajal Researcher

Date of start: April 23rd, 2017

EMPLOYMENT HISTORY

Juan de la Cierva fellow, TALN Research Group

Department of Information and Communication Technologies

Universitat Pompeu Fabra, Barcelona

2014–2017

Visiting Lecturer, TALN Research Group <i>Department of Information and Communication Technologies</i> Universitat Pompeu Fabra, Barcelona	2012–2014
Computational Linguist <i>Department of Learning Technologies</i> Universitat Oberta de Catalunya, Barcelona	2009–2011
Postdoc Researcher, Lecturer <i>Department of Signal Theory and Communications</i> Universitat Politècnica de Catalunya, Barcelona	2008–2009
PhD Student <i>Department of Signal Theory and Communications</i> Universitat Politècnica de Catalunya, Barcelona	2004–2008
Researcher, Research Group in Computational Linguistics (GilcUB) <i>Parc Científic de Barcelona</i> Universitat de Barcelona	2002–2003
Researcher <i>Research Centre in Artificial Intelligence (DFKI)</i> Saarland University, Saarbrücken, Germany	2001–2002
Scientific Coordinator <i>Department of Computational Linguistics</i> Editorial Planeta-Actimedia S.A., Barcelona	2000–2001

INTERNATIONAL RESEARCH STAYS

The Centre for Speech Technology Research (CSTR) <i>Host: Joanna D. Moore</i> University of Edinburgh	United Kingdom 2015 (3 months)
National Centre for Biometric Studies <i>Host: Michael Wagner</i> University of Canberra	Australia 2007 (6 months)
Department of Philosophy and Linguistics <i>Host: Kirk P.H. Sullivan</i> University of Umeå	Sweden 2005–2006 (3 months)
German Research Centre for Artificial Intelligence (DFKI) <i>Host: Thierry Declerck</i> Saarland University	Germany 2001–2002 (6 months)

CURRENT MANAGEMENT RESPONSIBILITIES

Coordinator of the Master in Intelligent Interactive Systems <i>Department of Information and Communication Technologies</i> Universitat Pompeu Fabra	2014–2019
Member of the Postgraduate and Doctorate Academic Commission <i>Department of Information and Communication Technologies</i> Universitat Pompeu Fabra	2014–2019

CURRENT TEACHING ACTIVITIES

Natural Language Interaction

Master course (Master in Intelligent Interactive Systems)

from 2013

Universitat Pompeu Fabra

Discrete Mathematics

Undergraduate course (Engineering School)

from 2012

Universitat Pompeu Fabra

PAST TEACHING ACTIVITIES

The Role of Linguistics in Statistical Machine Translation

25th European Summer School in Logic, Language and Information (ESLLI 2013)

August 2013

Heinrich Heine University, Düsseldorf, Germany

Modeling Social Interaction 2.0

Undergraduate course (Engineering School)

2013–2016

Universitat Pompeu Fabra

Speech Processing

Undergraduate course (Engineering School)

2013–2018

Universitat Pompeu Fabra

Waves and Electromagnetism

Undergraduate course (Engineering School)

2012–2015

Universitat Pompeu Fabra

Intelligent Computing and Natural Language

Undergraduate course (Engineering School)

2013–2014

Universitat Pompeu Fabra

Optical Engineering

Undergraduate course (Engineering School)

2012–2012

Universitat Pompeu Fabra

Computational Logic

Undergraduate course (Engineering School)

2012–2012

Universitat Pompeu Fabra

Speech and Language Technologies and Applications

Master course (Master of Research on Information and Communication Technologies)

2006–2008

Universitat Politècnica de Catalunya

Technology and Society

Undergraduate course (Barcelona School of Telecommunications Engineering)

2006–2009

Universitat Politècnica de Catalunya

Technoethics

Undergraduate course (Barcelona School of Telecommunications Engineering)

2008–2009

Universitat Politècnica de Catalunya

Engineering and Social Responsibility

Undergraduate course (Barcelona School of Telecommunications Engineering)

2006–2008

Universitat Politècnica de Catalunya

OTHER PROFESSIONAL RESPONSIBILITIES

Reviewer in Journals

- Cognitive Computation (1)
- BioMed Research International (1)
- Lingua (1)
- Journal of Intelligent Systems (1)
- Computer Speech and Language (1)
- Information Sciences (1)
- Speech Communication (1)
- The International Review of Research in Open and Distance Learning (4)
- Journal of Natural Language Engineering (1)
- Studies in Media and Communication (1)
- Signal, Image and Video Processing (1)
- Folia Phoniatica et Logopaedica (1)
- Llengua, Societat i Comunicació (1)

Reviewer in Conferences

- Interspeech 2019
- 27th European Signal Processing Conference (EUSIPCO) 2019
- MT Summit 2019
- International Joint Conference on Artificial Intelligence (IJCAI) 2019
- AAAI Conference on Artificial Intelligence 2019
- Iberspeech 2018
- Interspeech 2018
- 27th International Conference on Computational Linguistics (COLING)
- International Joint Conference on Artificial Intelligence (IJCAI-ECAI)
- 15th Sound and Music Computing Conference
- Speech Prosody Conference 2018
- Annual Conference of the European Association for Machine Translation (EAMT) 2018
- Language Resources and Evaluation Conference (LREC) 2018
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2018
- Interspeech 2017
- Annual Conference of the European Association for Machine Translation (EAMT) 2017
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2017
- Interspeech 2016
- Annual Conference of the European Association for Machine Translation (EAMT) 2016
- Language Resources and Evaluation Conference (LREC) 2016
- Annual Conference of the European Association for Machine Translation (EAMT) 2015
- XXX Congreso de la Sociedad Española para el Procesamiento del Lenguaje Natural (SEPLN), 2014
- Joint ICMC | SMC Conference: 40th International Computer Music Conference & 11th Sound and Music Computing Conference
- Language Resources and Evaluation Conference (LREC) 2014
- 21st European Signal Processing Conference (EUSIPCO) 2013
- SMAC Stockholm Music Acoustic Conference & SMC Sound and Music Computing Conference 2013
- 20th European Signal Processing Conference (EUSIPCO) 2012

Panels and Other Scientific Committees

- Chair of Session in Iberspeech 2018
- End of Degree Project: *Boosting image captioning with an attentional mechanism* (Javier Benedicto), 2018
- End of Degree Project: *Sentiment analysis on Amazon product reviews* (Enric Martos), Universitat Pompeu Fabra, 2018
- Comissió Interna de Revisió Ètica de Projectes (CIREP-UPF), 2018
- PhD Thesis: *The role of Human reference translation in machine translation evaluation* (Marina Fomicheva), Universitat Pompeu Fabra, 2017
- PhD Thesis: *Discriminative features for GMM and i-vector based speaker diarization* (Abraham Woubie Zewoudie), Universitat Politècnica de Catalunya, 2017
- Master Thesis: *Identification of the native tongue of authors of scientific publications written in English* (Fenglu Zhang), Universitat Pompeu Fabra, 2017
- Master Thesis: *Knowledge extraction through a camera* (Pantelis Stylianides), Universitat Pompeu Fabra, 2017
- Master Thesis: *Communication mode selection in humanoid conversation agents* (Carla Ten), Universitat Pompeu Fabra, 2017
- Master Thesis: *Methodology for detecting suicide behavior on social media* (Sofija Milunov), Universitat Pompeu Fabra, 2017
- Comissió Interna de Revisió Ètica de Projectes (CIREP-UPF), 2017
- PhD Thesis: *Nuevas técnicas diagnósticas de las enfermedades respiratorias. Análisis de imagen* (José Antonio Fiz Fernández), Universitat Politècnica de Catalunya, 2016
- Master Thesis: *A neural network approach for automatic detection of equipment alarms in a neonatal intensive care unit environment* (Alex Peiró-Lilja), Universitat Pompeu Fabra, 2016
- Scientific committee of the Equit@t Award, Universitat Oberta de Catalunya, 2016
- PhD Thesis: *Un modelo computacional para la simplificación automática de expresiones numéricas* (Susana Bautista), Universidad Complutense de Madrid, 2015
- End of Degree Project: *Clasificación de estados emocionales provocados por estímulos visuales basada en aprendizaje automático* (Albert Manovel), Universitat Pompeu Fabra, 2013
- UPF Research Award in Engineering and Applied Mathematics, 2013
- Associate Editor of the Journal of Biometrics (2013–2016)
- End of Degree Project: *Disseny, implementació i avaluació d'un joc interactiu basat en el Tangram* (Roc Itxart), 2012
- End of Degree Project: *Aprendizaje de idiomas con reconocimiento de audio* (Guillem Pérez), 2012
- XV Debat Universitari. El català i les tecnologies de la informació i la comunicació: reptes inevitables i necessitats preemptòries, Universitat d'Andorra, 2005

Organization of R+D Activities

- 19th International Conference of the Catalan Association for Artificial Intelligence (Universitat Pompeu Fabra), 2016
- II International Workshop on Free/Open-Source Rule-Based Machine Translation (Universitat Oberta de Catalunya), 2011
- III Jornades sobre el català a les noves tecnologies (Softcatalà, Institut Joan Lluís Vives, Universitat Pompeu Fabra, Generalitat de Catalunya), 2005

DISTINCTIONS AND AWARDS

- SciWriting in the Sciences – Certificate with Distinction, Stanford University, 2013
- Best demo paper Award, 1st Joint SIG-IL/Microsoft Workshop on Speech and Language Technologies for Iberian Languages, Porto Salvo, Portugal, 2009
- Contest Award: *Els 200 noms de la Catòsfera*, Omnium Cultural, 2007
- Music National Award from the Generalitat de Catalunya as a member of Orfeó Català, 2006
- Culture National Award from the Generalitat de Catalunya as a member of Softcatalà, 2005
- Internet National Award from the Generalitat de Catalunya as a member of Softcatalà, 2004

GRANTS AND SCHOLARSHIPS

- Ramón y Cajal fellowship, Spanish Ministry of Economy, Industry and Competitiveness, 2017–2022
- Juan de la Cierva fellowship, Spanish Ministry of Economy and Competitiveness, 2014–2017
- José Castillejo mobility grant (United Kingdom), Spanish Ministry of Education, Culture and Sports, 2014
- FPU (Formación de Personal Universitario) fellowship, Spanish Ministry of Education and Science, 2004–2008
- FPU mobility grant (Australia), Spanish Ministry of Education and Science, 2007
- FPU mobility grant (Sweden), Spanish Ministry of Education and Science, 2005
- Agreement of Educative Cooperation (Universitat de Barcelona – Polinter Company), 2003
- Collaboration Scholarship (Universitat de Barcelona – Planeta Actimedia S.A.), 2000

ACADEMIC ACCREDITATIONS

- Professor Agregat, Agència per a la Qualitat del Sistema Universitari Català (AQU), 2014
- Profesor Contratado Doctor, Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA), 2013
- Profesor Ayudante Doctor, Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA), 2011
- Professor Lector, Agència per a la Qualitat del Sistema Universitari Català (AQU), 2009

TALKS AND SEMINARS

- September 25th 2016: *Using paragraph and discourse-based prosodic cues to improve speech synthesis expressiveness*. AI With The Best Online Conference. Invited talk.
- July 7th 2016: *Ethical implications of the lack of participation of women in technological fields*. Seminar on "Academic sexism and ethical implications of the underrepresentation of women in technology", Gender and ICT Research Group, IN3, Universitat Oberta de Catalunya, Espai Francesca Bonnemaison. Invited talk.
- August 24th 2015: *Using information structure for prosody prediction*. Centre for Speech Technology Research, University of Edinburgh. Invited talk.
- May 15th 2015: *New ethical changes for today engineering and technology*. EGERA Workshop, Universitat Autònoma de Barcelona. Invited talk.
- June 4th 2014: *The information structure-prosody language interface revisited*. Seminar Series of the GLICOM Group, Universitat Pompeu Fabra. Invited talk.
- February 2nd 2012: *Audiovisual prosody*. Seminar Series of the TALNM Group, Universitat Pompeu Fabra. Invited talk.
- July 22nd 2008: *Biometrics. Normalisation and Fusion Techniques*. Seminar Series of the Speech Group, Universitat Politècnica de Catalunya. Invited talk.
- May 25th 2007: *Introduction to Biometrics. Fusion of Prosody, Voice Spectrum and Face Features for Multimodal Person Verification*. Seminar Series of the Department of Information Sciences and Engineering, University of Canberra. Invited talk.

COMPETITIVE RESEARCH PROJECTS

INGENIOUS: First Responder (FR) of the Future: a Next Generation Integrated Toolkit (NGIT) for Collaborative Response, increasing protection and augmenting operation capacity

- Funding Agency: EC - Horizon 2020
- Institute of Communication and Computer Systems, Universiteit Twente, Deutsches Zentrum für Luft, Dig-inext, Fundación Tekniker, Exodus Anonymos Etaireia Pliroforikis, Sintef AS, Ethniko Kentro Erevnas kai Technologikis Anaptyxis, Totalforsvarets Forskningsinstitut, C4Controls Ltd, Alpes Lasers SA, Technische Universität Wien, CYRIC, Universitat Pompeu Fabra, Singularlogic Anonymi Etaireia Pliroforiakon Systeematon kai Efarmogon Pliroforikis, Korea Institute of Robot and Convergence, Gobierno Vasco, Assistance Publique - Hospitaux de Paris, Sodertorns Branforsvarsforbund, ISAR Germany Stiftung Gemeinnutzige UG, Police Service of Northern Ireland
- Principal Investigator at UPF: Mireia Farrús
- Reference: H2020 - 833435
- Funding: 8 616 111,25 €
- Duration: 01 Sep 2019 - 31 Aug 2022

CONNEXIONS: Interconnected Next-Generation Immersive IoT Platform of Crime and Terrorism Detection, Prediction, Investigation, and Prevention Services

- Funding Agency: EC - Horizon 2020
- Partners: Motorola Solutions Israel Ltd., Ethniko Kentro Erevnas kai Technologikis Anaptyxis, Sheffield Hallam University, Nuromedia GmbH, Universitat Pompeu Fabra, Siveco Romania SA, Police Service of Northern Ireland, Hochschule für den Öffentlichen Dienst in Bayern, Ministério da Justiça, Ingegneria Informatica SPA, Serviciul de Protectie si Paza, Gottfried Wilhelm Leibniz Universität Hannover, Ministère de l'Interieur, Katholieke Universiteit Leuven, Serviciul de Protectie si Paza de Stat, Bayerisches Staatsministerium des Innern, Ministerio del Interior
- Principal Investigator at UPF: Leo Wanner
- Reference: H2020 - 786731
- Funding: 4 999 390 €
- Duration: 01 Sep 2018 - 31 Aug 2021

KRISTINA: A Knowledge-based Information Agent with Social Competence and Human Interaction Capabilities

- Funding Agency: EC - Horizon 2020
- Partners: Universitat Pompeu Fabra, Centre for Research and Technology Hellas - IT Institute, University of Augsburg, Almende BV, Vocapia Research, Universität Tübingen, Universität Ulm, SemFYC, Deutsches Rotes Kreuz, Kreisverband Tübingen
- Principal Investigator at UPF: Leo Wanner (Coordinator)
- Reference: H2020 - 645012
- Funding: 3 633 801 €
- Duration: 01 Mar 2015 - 28 Feb 2018

Prevaluació de les proves d'avaluació continuada

- Funding Agency: Universitat Oberta de Catalunya
- Partners: Tecnologia Educativa - UOC
- Principal Investigator: Mireia Farrús
- Funding: 7 000 €
- Duration: 01 Mar 2011 - 28 Feb 2011

Introducció d'àrees temàtiques al traductor automàtic Apertium

- Funding Agency: Universitat Oberta de Catalunya
- Partners: Tecnologia Educativa - UOC
- Principal Investigator: Mireia Farrús
- Funding: 7 000 €
- Duration: 01 Mar 2011 - 28 Feb 2011

Avaluació automàtica de tests de preguntes obertes

- Funding Agency: Universitat Oberta de Catalunya
- Partners: Tecnologia Educativa - UOC
- Principal Investigator: Mireia Farrús
- Funding: 7 000 €
- Duration: 01 Mar 2011 - 28 Feb 2011

TECNOPARLA: Tecnologies de la parla per al català i la seva aplicació a la traducció veu a veu

- Funding Agency: Generalitat de Catalunya
- Partners: Universitat Politècnica de Catalunya
- Principal Investigator: J. Adrián Rodríguez-Fonollosa
- Funding: 1 500 000 €
- Duration: 01 Jan 2007 - 30 Sep 2009

AVIVAVOZ: Tecnologías para la traducción de voz: reconocimiento, traducción estadística basada en corpus y síntesis

- Funding Agency: Ministerio de Educación y Ciencia
- Partners: Universitat Politècnica de Catalunya
- Principal Investigator: José B. Mariño
- Reference: TEC2006-13694-C03-01
- Funding: 298 023 €
- Duration: 01 Oct 2006 - 30 Sep 2009

ACESCA: Análisis computacional de escenas acústicas en el entorno de una sala inteligente multimodal

- Funding Agency: Ministerio de Educación y Ciencia
- Partners: Universitat Politècnica de Catalunya
- Principal Investigator: Enric Monte
- Reference: TIN2005-08852
- Funding: 123 760,00 €
- Duration: 01 Jan 2006 - 31 Dec 2007

The Thinking Head Project: From Talking to Thinking Heads – A Research Platform for Human Communication Science

- Funding Agency: Australian Research Council / National Health and Medical Research Council
- Partners: University of Western Sydney, Macquarie University, Flinders University, University of Canberra, Carnegie Mellon University, Technical University of Denmark, Technische Universität Berlin
- Principal Investigator at UC: Michael Wagner
- Duration: 01 Jan 2006 - 31 Dec 2011

Imitated Voices: A research project with application to the law and security

- Funding Agency: Riksbankens Jubileumsfond, Sweden
- Partners: University of Umeå
- Principal Investigator: Kirk P.H. Sullivan
- Duration: 01 Jan 2003 - 31 Dec 2006

BIOSEC: Biometrics and Security

- Funding Agency: European Commission - FP6
- Partners: Telefónica I+D, Università di Bologna, Aristotle University of Thessaloniki, Atmel Grenoble SA, Biometrika SRL, Centre for Research and Technology Research Hellas, Etra I+D SA, Expertnet SA, Finnair OYJ, Giesecke and Devrient GmbH, Ibermatica SA, Katholieke Universiteit Leuven, Mediascore Gesellschaft für Medien- und Kommunikationsforschung MBH, Naukowa i Akademicka siec Komputerowa, Siemens Aktiengesellschaft, Sisaasiainministerio, Technical Research Centre of Finland, Universidad Carlos III de Madrid, UNiversidad Politècnica de Madrid, Universität zu Köln, UNiversitat Politècnica de Catalunya, University of Tampere, VCON Telecommunications Ltd
- Principal Investigator at UPC: Javier Hernando
- Reference: FP6-IST-001766
- Funding: 5 549 995 €
- Duration: 01 Dec 2003 - 30 Nov 2005

CHIL: Computer Human Interaction Loop

- Funding Agency: European Commission - FP6
- Partners: Fraunhofer Gesellschaft für Förderung der Angewandten Forschung EV, Carnegie Mellon University, Centre National de la Recherche Scientifique, Daimlerschrysler AG, Evaluations and Language Resources Distribution Agency, IBM Ceska Republika SPOL. SRO, Institut National de Recherche en Informatique et en Automatique, Institut National Polytechnique de Grenoble, Instituto Trentino di Cultura, Kungliga Tekniska Högskolan, Research and Education Society in Information Technologies, Technische Universiteit Eindhoven, The Leland Stanford Junior University, Universität Karlsruhe, Universitat Politècnica de Catalunya, Université Joseph Fourier Grenoble 1
- Principal Investigator at UPC: Josep R. Casas
- Reference: FP6-IST-506909
- Funding: 15 000 000 €
- Duration: 18 Dec 2003 - 31 Dec 2006

IMAGINE: Interfacing Mobile Applications with voice natural language interactivity

- Funding Agency: European Commission - FP5
- Partners: Software AG España, SA, IT Innovation, Institut für Angewandte Informationsforschung, Royal National Institute for the Blind, Iniciativas Digital Media – Grupo La Vanguardia, Telefónica I+D, Universitat de Barcelona
- Principal Investigator at UB: Ramon Cerdà
- Reference: FP5-IST-29490
- Funding (UB): 113 440 €
- Duration: 1 Mar 2002 - 30 Jun 2003

PEKING: People and Knowledge Cross Lingual Information Gathering

- Funding Agency: European Commission - FP5
- Partners: Universitat de Barcelona
- Principal Investigator at UB: Ramon Cerdà
- Reference: FP5-IST-25338
- Funding (UB): 175 898 €
- Duration: 1 Jan 2001 - 31 Dec 2002

ISLE: International Standards for Language Engineering

- Funding Agency: European Commission - FP5
- Partners: Universitat de Barcelona
- Principal Investigator at UB: Núria Bel
- Reference: FP5-IST-10647
- Funding (UB): 15 000 €
- Duration: 1 Jan 2000 - 31 Dec 2002

E-MATTER: E-Mail Access through the Telephone Using Speech Technology Resources

- Funding Agency: European Commission - FP5
- Partners: Universitat de Barcelona
- Principal Investigator at UB: Ramon Cerdà
- Reference: FP5-IST-21042
- Funding (UB): 15 000 €
- Duration: 1 Jan 2000 - 31 Dec 2002

MUMIS: Multimedia Indexing and Searching Environment

- Funding Agency: European Commission - FP5
- Partners: Universiteit Twente, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH, Esteam AB, Max-Planck-Gesellschaft zur Förderung der Wissenschaft Vertreten durch das Max-Planck-Institut für Psycholinguistik, Stichting Katholieke Universiteit, The University of Sheffield, VDA Informatiebeheersing BV
- Principal Investigator at DFKI: Hans Uszkoreit
- Reference: FP5-IST-10651
- Funding (DFKI): 2 425 000 €
- Duration: 1 Jul 2000 - 31 Dec 2002

COLLATE: Computational Linguistics and Language Technology for Real Life Applications

- Funding Agency: Federal Ministry of Education and Research, Germany
- Partners: Deutsches Forschungszentrum für Künstliche Intelligenz GmbH, Universität des Saarlandes
- Principal Investigator at DFKI: Hans Uszkoreit
- Duration: 1 Apr 2001 - 31 Dec 2003

FUNDED INDUSTRIAL PROJECTS

EMOTIVE. Speech pattern recognition algorithms to detect the status of patients with schizophrenia

- Funding Company: Nurogames GmbH, Germany
- Principal Investigator: Mireia Farrús
- Funding: 32 000 €
- Duration: 1 May 2019 - 31 Dec 2020

COPD-MOBILE – EMPOC. A new technological ecosystem based on COPD patient experience

- Funding Company: PULSO Ediciones SA
- Principal Investigator: Mireia Farrús
- Funding: 30 000 €
- Duration: 1 Jan 2019 - 31 Dec 2019

mDepression. Mood status detection of depressed patients

- Funding Company: PULSO Ediciones SA
- Principal Investigator: Mireia Farrús
- Funding: 2 500 €
- Duration: 1 Jan 2018 - 31 Dec 2018

NYPHA-MD. Next Generation Mobile Platforms for Health, in Mental Disorders

- Funding Company: PULSO Ediciones SA
- Principal Investigator: Mireia Farrús
- Funding: 49 000 €
- Duration: 1 Jan 2016 - 31 Dec 2017

SUPERVISED THESES AND PROJECTS

Supervised PhD Theses.....

Title: Incorporating prosody into neural speech processing pipelines

Student: Hamdi Alp Öktem

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 25th February 2019

Title: Information Structure – Prosody Interface: On the role of hierarchical thematicity in an empirically-grounded model

Student: Mónica Domínguez Bajo

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 17th November 2017

Supervised Master Theses.....

Title: Anti-theft

Student: Jordi Selva Vinagre

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 12th September 2018

Title: The role of prosody in speech-to-speech translation

Student: Irina Tanayan

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 7th September 2018

Title: Co-speech gesture generation for the humanoid robot REEM-C

Student: Laura Pérez Mayos

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra
Date: 30th June 2015

Title: Improvement of speech synthesis through emotional pitch markers

Student: Joan Pere Sánchez Pellicer

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 14th July 2014

Supervised End of Degree Projects.....

Title: Millora de la naturalitat i l'expressivitat en la síntesi de veu

Student: Jordi Rabasseda Riba

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 13th July 2017

Title: Humanitzant avatars. Generació automàtica de gestos a partir de la parla

Student: Josep Riera Vuibert

Place: Department of Information and Communication Technologies, Universitat Pompeu Fabra

Date: 10th July 2013

Title: Pre and post-editing web environment for Apertium

Student: Arnaud Vié

Place: Google Summer of Code – Universitat Oberta de Catalunya

Date: 15th September 2010

PUBLICATIONS

Adan Cassan, Sergi Cervell, Mireia Colom, Mireia Farrús, Ignacio González, Rafael Marín, and David Trotzig. El uso editorial de herramientas lingüísticas: un ejemplo con los descriptores humanos. In *Revista de la Sociedad Española para el Procesamiento del Lenguaje Natural*, volume 27, pages 317–318, Jaén, Spain, 2001.

Xavier Anguera, Mireia Farrús, and Javier Hernando. Segmentació de locutor per a la indexació automàtica de bases de dades multimèdia en català. In *Actes del II Congrés d'Enginyeria en Llengua Catalana*, Andorra la Vella, Andorra, 2004.

Mireia Farrús, Jan Anguita, Xavier Anguera, Josep M. Crego, Adrià de Gispert, Javier Hernando, and Climent Nadeu. Els sistemes de reconeixement de veu i traducció automàtica en català: present i futur. In *Actes del II Congrés d'Enginyeria en Llengua Catalana*, Andorra la Vella, Andorra, 2004.

Ramon Cerdà, Mireia Farrús, and Javier Hernando. Hacia una sinergia metodológica en la identificación de locutores. In *Filología y Lingüística: Estudios ofrecidos a Antonio Quilis*, volume 2, pages 1515–1528. Consejo Superior de Investigaciones Científicas, Madrid, 2005.

Ramon Cerdà, Mireia Farrús, Javier Hernando, and Montse Veyrat. Un experimento sobre la noción de campo de dispersión fonológica. In *Actas del III Congreso de la Sociedad Española de Acústica Forense*, Santiago de Compostela, Spain, 2005.

Mireia Farrús, Jan Anguita, Javier Hernando, and Ramon Cerdà. Fusión de sistemas de reconocimiento

basados en características de alto y bajo nivel. In *Actas del III Congreso de la Sociedad Española de Acústica Forense*, Santiago de Compostela, Spain, 2005.

Mireia Farrús, Erik Eriksson, Kirk P. H. Sullivan, and Javier Hernando. Dialect imitations in speaker recognition. In *Proceedings of the European IAFL Conference on Forensic Linguistics, Language and the Law*, pages 347–354, Barcelona, Catalonia, 2006.

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