CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – *The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.*

Part A. PERSONAL INFORMATION

First name	Eva		
Family name	Navas Cordón		
Gender (*)	Female	Birth date (dd/mm/yyyy)	14/01/1971
Social Security, Passport, ID number	35770584H		
e-mail	eva.navas@ehu.eus	URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0003-3804-4984	

(*) Mandatory

A.1. Current position

Position	Lecturer
Initial date	06/09/2010
Institution	University of the Basque Country (UPV/EHU)
Department/Center	Communications Engineering · Faculty of Engineering Bilbao
Country	Spain · Teleph. number 946017306
Key words	Speech synthesis, expressive speech, artificial intelligence

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
25-03-1996 to 31-08-1998	Assistant consultant
01-09-1998 to 30-09-1998	Team leader consultant
20-09-1999 to 09-11-1999	Associate professor
31-03-2000 to 05-09-2010	Associate professor

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Engineer's Degree	University of the Basque Country (UPV/EHU)	1996
PhD in Communication Technologies	University of the Basque Country (UPV/EHU)	2003

Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

Eva Navas graduated as telecommunication engineer at UPV/EHU in 1996 and, after two years working for a private company, she came back to UPV/EHU to start her PhD. She completed it in 2003. From 2000, she works at UPV/EHU, initially as associate professor and then as lecturer from 2009. She teaches different subjects related with telecommunication engineering and speech technologies both in undergraduate and postgraduate studies.

She has taken part in more than 40 research projects and has been the leading researcher in several of them. In these projects, she has actively contributed to the development of speech analysis and synthesis technologies, with emphasis in the study of prosody and the improvement of expressiveness and naturalness in synthetic speech. She also works in speaker recognition and diarization and emotion detection in speech, applying her knowledge of prosody to these fields. She has contributed to the production of numerous speech resources and software tools that are publicly available. She has participated in several national and international evaluation campaigns for speech synthesis, speaker diarization and audio segmentation with excellent results. She has also actively worked on technology and knowledge transfer through contracts with private companies from different areas. As result of this collaboration, a patent has been obtained.

Nowadays she is focused in the application of deep learning techniques to text to speech conversion and the development of speech technology to help people with speech disorders. In particular, she works in the generation of speech from electromyographic signals recorded when speaking silently. She is interested in the application of deep learning strategies to boost the quality and naturalness of the generated speech.

She has published more than 100 scientific papers in the most relevant journals and conferences of the research field. In addition, she acts as reviewer for the main conferences and journals of the area. She has served as area chair in the Speech Synthesis and Spoken Language Generation track in Interspeech 2019 and 2022 and is currently acting as area chair for Interspeech 2023.

More details can be found at the researches profiles in ORCID (https://orcid.org/0000-0003-3804-4984), Web of Science (https://www.webofscience.com/wos/author/record/H-4317-2013), Scopus (https://www.scopus.com/authid/detail.uri?authorId=8653242300) and Google Scholar (https://scholar.google.es/citations?user=Gih0v4oAAAAJ&hl=en&oi=ao).

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications *(see instructions)*

García, V., Hernáez, I., & Navas, E. (2022). Evaluation of tacotron based synthesizers for spanish and basque. *Applied Sciences*, 12(3), 1686. ISSN: 2076-3417.

Serrano García, L., Raman, S., Hernáez, I., Navas, E., Sanchez, J., & Saratxaga, I. (2021). A Spanish multispeaker database of esophageal speech. *Computer Speech & Language*, 66, 101168. ISSN 0885-2308.

Raman, S., Serrano, L., Winneke, A., Navas, E., & Hernaez, I. (2019). Intelligibility and listening effort of spanish oesophageal speech. *Applied Sciences*, 9(16), 3233. ISSN: 2076-3417.

Odriozola, I., Hernaez, I., & Navas, E. (2018). An on-line VAD based on Multi-Normalisation Scoring (MNS) of observation likelihoods. *Expert Systems with Applications*, 110, 52-61. ISSN: 0957-4174.

Saratxaga, I., Sanchez, J., Wu, Z., Hernaez, I., & Navas, E. (2016). Synthetic speech detection using phase information. *Speech Communication*, 81, 30-41. ISSN: 0167-6393.

Sanchez, J., Saratxaga, I., Hernaez, I., Navas, E., Erro, D., & Raitio, T. (2015). Toward a universal synthetic speech spoofing detection using phase information. *IEEE Transactions on Information Forensics and Security*, 10(4), 810-820. ISSN: 1556-6013.

Erro, D., Alonso, A., Serrano, L., Navas, E., & Hernaez, I. (2015). Interpretable parametric voice conversion functions based on Gaussian mixture models and constrained transformations. *Computer Speech & Language*, 30(1), 3-15. ISSN: 0885-2308

Erro, D., Sainz, I., Navas, E., & Hernaez, I. (2014). Harmonics plus noise model based vocoder for statistical parametric speech synthesis. *IEEE Journal of Selected Topics in Signal Processing*, 8(2), 184-194. ISSN: 1932-4553

Erro, D., Navas, E., & Hernaez, I. (2013). Parametric voice conversion based on bilinear frequency warping plus amplitude scaling. *IEEE Transactions on Audio, Speech, and Language Processing*, 21(3), 556-566. ISSN: 1558-7916

Luengo, I., Navas, E., & Hernáez, I. (2010). Feature analysis and evaluation for automatic emotion identification in speech. *IEEE Transactions on Multimedia*, 12(6), 490-501. ISSN: 1520-9210

C.2. Congress, indicating the modality of their participation (invited conference, oral presentation, poster)

Del Blanco, E., Salomons, I., Navas, E., & Hernáez, I. (2022). Phone classification using electromyographic signals. Proc. IberSPEECH, 2022. Poster

Romillo, V. G., Rioja, I. H., & Navas, E. (2021) The AHOLAB Text-to-Speech system for Blizzard Challenge 2021. Oral presentation

Alonso, A., García, V., Hernaez, I., Navas, E., & Sanchez, J. (2021). Automatic Speaker Adaptation Assessment Based on Objective Measures for Voice Banking Donors. In IberSPEECH. Oral presentation

Garcia, V., Hernaez, I., & Navas, E. (2021). Implementation of neural network based synthesizers for Spanish and Basque. In IberSPEECH. Oral presentation

C.3. Research projects, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

Aholab-GTTS: Audio, Speech and Language Processing Group (IT1704-22)
Funding entity: Gobierno Vasco
Participant entities: UPV/EHU
Duration, from: 1/01/2022   to: 31/12/2025   Funding: 60000€
Principal investigator: Inmaculada Hernáez y Eva Navas

HiTZketan: Deep bilingual speech to speech translation (COLAB22/13)
Funding entity: UPV/EHU
Participant entities: UPV/EHU
Duration, from: 1/01/2023   to: 31/12/2024   Funding: 10473€
Principal investigator: Ibon Saratxaga

European Language Equality (LC-01641480 – 101018166 (ELE))
Funding entity: European Union
Participant entities: UPV/EHU
Duration, from: 1/01/2021   to: 30/06/2022   Funding: 130000€
Principal investigator: German Rigau

Restauración de Voz mediante Interfaces de Habla Silenciosa (ReSSint, PID2019-108040RB-C21)
Funding entity: Ministerio de Ciencia, Innovación y Universidades
Participant entities: UPV/EHU, Universidad de Granada
Duration, from: 1/06/2020   to: 31/05/2023   Funding: 139876€
Principal investigator: Inmaculada Hernaez y Eva Navas

Sistemas de Aprendizaje Profundo E2E para Traducción Automática del Habla (Mintzai, KK-2019/00065)
Funding entity: Gobierno Vasco
Participant entities: UPV/EHU
Duration, from: 1/01/2019   to: 31/12/2020   Funding: 58296€
Investigador responsable: Eva Navas

Aholab-GTTS: Audio, Speech and Language Processing Group (IT1355-19)
Funding entity: Gobierno Vasco
Participant entities: UPV/EHU
Duration, from: 1/01/2019   to: 31/12/2021   Funding: 100000€
Principal investigator: Inmaculada Hernáez

Aprendizaje profundo aplicado a voces patológicas (PIBA_2018_1_0035)
Funding entity: Gobierno Vasco
Participant entities: UPV/EHU
Duration, from: 19/09/2018   to: 30/06/2021   Funding: 50000
Principal investigator: Inmaculada Hernaez

Tecnologías de la Lengua y el Habla aplicadas a los ámbitos del RIS3 (BerbaOla, KK-2018/00014 y KK-2017/00043)
Funding entity: Gobierno Vasco
Participant entities: Elhuyar, VicomTech, Robotiker, UPV/EHU
Duration, from: 1/03/2018   to: 31/12/2018   Funding: 70212.23
Principal investigator: Eva Navas

ENRICH: Enriched Communication accross the lifespan
Funding entity: Unión Europea
Participant entities: UPV/EHU (Coord.), Univ. Edinburgh, Univ. College London, Univ. Crete, Radboud Univ., Univ. Medical Center Groningen, Hörzentrum Oldenburg, Tobii AB
Duration, from: 1/07/2016   to: 30/06/2021   Funding: 495745.92
Principal investigator: Martin Cooke

Restauración, almacenamiento y rehabilitación de la voz (RESTORE, TEC2015-67163-C2-1-R)
Funding entity: Ministerio de Economía y Competitividad
Participant entities: UPV/EHU, Biocruces
Duration, from: 1/01/2016   to: 31/12/2018   Funding: 145442€
Principal investigator: Inmaculada Hernáez y Eva Navas

Tecnologías de la Lengua y el Habla para un Territorio Inteligente, Industrial, Inclusivo y Multilingüe (ElkarOla KK2016/00087 y KK-2015/00098)

Funding entity: Gobierno Vasco
Participant entities: Elhuyar, VicomTech, Robotiker, UPV/EHU
Duration, from: 1/03/2016   to: 31/12/2016   Funding: 92588.24€
Principal investigator: Eva Navas

Ber2Tek, Tecnologías de la lengua, de voz y multimedia al servicio de la Industria de las Lenguas (IE12-333)
Funding entity: Gobierno Vasco
Participant entities: Elhuyar, VicomTech, Robotiker, UPV/EHU
Duration, from: 1/01/2012   to: 31/12/2014   Funding: 177906€
Principal investigator: Eva Navas

Búsqueda de información en contenidos audiovisuales plurilingües (BUCEADOR, TEC2009-14094-C04-02)
Funding entity: Ministerio de Ciencia e Innovación
Participant entities: UPC, UVigo, UPV/EHU
Duration, from: 1/01/2010   to: 31/12/2012   Funding: 150766.01€
Principal investigator: Eva Navas

C.4. Contracts, technological or transfer merits,
AhoStage: Diseño y desarrollo de un regidor de escena automático
Funding administration/company: ESKENA Tipo de entidad: Asociaciones y Agrupaciones
Participant entities: UPV/EHU, ESKENA Tipo de entidad: Asociaciones y Agrupaciones
Duration, from: 13/09/2021 to: 13/01/2022   Funding: 10391,77€
Principal investigator: Ibon Saratxaga Couceiro
Análisis de la calidad sonora de los vehículos para su evaluación automática
Funding administration/company: Mercedes Benz España
Participant entities: UPV/EHU, Mercedes Benz España
Duration, from: 14/02/2017 to: 31/12/2018   Funding: *146990.80€*
Principal investigator: Ibon Saratxaga Couceiro
Voz mejorada para AhoTTS en Android (TR40726)
Funding administration/company: Gobierno Vasco
Participant entities: UPV/EHU
Duration, from: 1/05/2013   to: 31/12/2013   Funding: 5000€
Principal investigator: Inmaculada Hernáez Rioja
BERRIA.INFO ENTZUNGAI (Hacer escuchable Berria.info)
Funding administration/company: EHUNTZEN, S.L.
Participant entities: UPV/EHU
Duration, from: 1/05/2013   to: 31/12/2013   Funding: 10000€
Principal investigator: Ibon Saratxaga Couceiro
Puesta a punto de bases de datos acústicas para el proyecto Metanet4u
Funding administration/company: Universidad Politécnica de Cataluña
Participant entities: UPV/EHU
Duration, from: 1/06/2012   to: 19/10/2012   Funding: 10000€
Principal investigator: Inmaculada Hernáez Rioja
Desarrollo de sistemas de síntesis de voz
Funding administration/company: ELEKA INGENIARITZA LINGUISTIKOA
Participant entities: UPV/EHU
Duration, from: 1/09/2010   to: 20/04/2013   Funding: 137761.38€
Principal investigator: Inmaculada Hernáez Rioja
PATENT
Detection device for detecting a noise and a vibration in a motor vehicle, as well as a method (EP patent No. EP3885722A1)
Authors: Ganzabal, G., Saratxaga, I., Diez, I., Hernáez, I., Navas, E.
Patent N: P 200900923
Priority countries: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Date: 29/09/2021
Owner entity: DAIMLER AG (DE)