

**CURRICULUM VITAE**  
(as of Dec 08, 2023)

**PERSONAL INFORMATION**

Name **ALESSIA PAGLIALONGA**  
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Date of birth June 10, 1980

Nationality ITALIAN

I authorise processing of my personal data according to the current Italian directives (D.Lgs. n.196/2003, "Codice in materia di protezione dei dati personali").

**SUMMARY**

Alessia Paglialonga is Research Scientist at Consiglio Nazionale delle Ricerche (CNR) [National Research Council of Italy], adjunct Professor of biomedical informatics at Politecnico di Milano, and Visiting Researcher at Toronto Metropolitan University (Toronto, Canada), Health Prediction Lab. She has >15 years of international experience in multidisciplinary research in the field of biomedical engineering and ICT for health and hearing health care (medical devices, physiological modeling, signal processing, e-health and m-health for hearing). She is currently PI in two international projects and one national projects and part of the scientific coordination team in two ongoing national projects. She is author/co-author of >80 peer-reviewed articles in international Journals and Conferences, >80 communications at international and national conferences, 1 book and 8 book chapters. She has served as independent expert evaluator of research projects for several national and international funding agencies. She is Associate Editor for three peer-reviewed Journals published by leading International Publishers (Springer Nature, Elsevier, Informa Healthcare). She has served as member of scientific program committees in several international and national conferences, and she has been peer reviewer for >35 international Journals and >10 conferences.

**EDUCATION AND TRAINING**

Degree Ph.D. in Biomedical Engineering (with honors)  
Year 2009  
Institutions University: Politecnico di Milano, Dipartimento di Bioingegneria  
Hosting Institution: Consiglio Nazionale delle Ricerche, Istituto di Ingegneria Biomedica (CNR ISIB), Milan  
Funding Institution (3-years scholarship): FAEV (Fondazione Ascolta e Vivi), Milan  
Thesis Advanced biomedical methods and models for the investigation of hearing function in tinnitus  
Recognition "2009 Best Ph.D. Thesis" Prize by the Italian National Group of Biomedical Engineering (GNB, Gruppo Nazionale di Bioingegneria).

Degree Master's Degree in Biomedical Engineering (with honors)  
Year 2005  
Institutions University: Politecnico di Milano, Dipartimento di Bioingegneria  
Hosting Institution: Consiglio Nazionale delle Ricerche, Istituto di Ingegneria Biomedica (CNR ISIB), Milan  
Thesis Speech processing for cochlear implants by using the Wavelet transform: Feasibility study, performance evaluation, and comparison to conventional strategies  
[original title in Italian: La trasformata Wavelet nella elaborazione del parlato per impianti cocleari: fattibilità e confronto con metodi tradizionali. Grade: 100/100 e lode]

**WORK EXPERIENCE**

Dates July 2011 - Present  
Position Research Scientist (full time permanent position)  
Institution Consiglio Nazionale delle Ricerche (CNR) at the following Institutes:  
• Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni (IEIIT), since Sept 2013

	<ul style="list-style-type: none"> <li>• Istituto di Ingegneria Biomedica (ISIB), from July 2011 to August 2013</li> </ul>
Dates	July 2005 - June 2011
Position	Early Stage Researcher (research fellow)
Institution	Consiglio Nazionale delle Ricerche, Istituto di Ingegneria Biomedica (CNR ISIB). Research fellowship contracts in the framework of the following Projects: <ul style="list-style-type: none"> <li>• Jan 2010- Jul 2011: EU Project EFHRAN, "European Health Risk Assessment Network on Electromagnetic Fields Exposure", 2009-2012 (European Commission, DG Health and Consumer Protection, Executive Agency for Health and Consumers (EAHC), Health 2008, 2009-2012; Agreement No. 20081106)</li> <li>• Jan – Dec 2009: EU FP7 Project AHEAD III "Assessment of Hearing in the Elderly: Aging and Degeneration Integration through Immediate Intervention" (2008-2011), funded by European Commission 7<sup>th</sup> Framework Programme, Area Health, Chronic Diseases (contract HEALTH-F2-2008-200835)</li> <li>• Jun – Dec 2008: International Project PAS "Innovative auditory stimulation as enhancer of brain plasticity in tinnitus therapy" (2008-2009), funded by Tinnitus Research Initiative TRI/link, coordinated by FAEV (Fondazione Ascolta e Vivi, Milan, Italy); Project "Advanced biomedical methods and models for the investigation of the hearing function in tinnitus", 2008-2009)</li> <li>• Jan – Feb 2007: EU FP6 Project EMF-NET "Effects of the Exposure to Electromagnetic Fields: From Science to Public Health and Safer Workplace", 2004-2008 (DG Research; Contract SSPE-CT-2004-502173)</li> <li>• Jan – Dec 2006: EU Project EMFnEAR "Exposure at UMTS Electromagnetic Fields: Study on Potential Adverse Effects on Hearing," (2004-2007) (DG Health and Consumer Protection, Programme of Community Action in the Field of Public Health, Contract N. 2004127)</li> <li>• Aug – Nov 2005: EU Project EMF-NET "Effects of the Exposure to Electromagnetic Fields: From Science to Public Health and Safer Workplace" 2004-2008 (EC FP6, Contract N. SSPE-CT-2004-502173)</li> </ul>
Dates	March 2006 – May 2006
Position	Practical Training Contract and Internship
Institutions	Laboratory "Experimentelle Audiologie" at the Klinikum rechts der Isar, Munich, Germany Fischer-Zoth Diagnosesysteme GmbH, Germering, Germany

## RESEARCH

### Overview

Her research interests develop around two main components that complement each other. On the one hand, a basic methodological component aimed at developing models, methods, techniques, and innovative systems for biomedical applications in screening, diagnosis, and care. On the other hand, an application-oriented component in clinical and nonclinical settings to support the development, evaluation, optimization, and validation of novel methods and protocols. Overall, the main research topics investigated so far cover different thematic areas which are inherently multidisciplinary, as summarized in the followings.

### Main Thematic Areas and Research Topics

Biomedical informatics, digital technologies, and e-Health. Main topics:

- Machine Learning applied to personalized disease prediction and prevention
- Development and validation of smart IoT systems and algorithms for patient monitoring
- Digital applications for medicine and health: safety, effectiveness, and quality assessment
- Explainable, Trustworthy AI in health applications

Novel measures of sensory and cognitive functions. Main topics:

- Automated, language-independent methods for hearing screening in adults and elderly
- Sensory systems modeling and biomedical signal processing
- Physiological responses to multimodal and cognitive stimulation

### Overview of Scientific Publications (The full list is reported on page 7)

56 Peer-reviewed articles on scientific Journals (H-index = 14; 700 citations overall [Scopus])

53 articles published by international Journals

3 articles published by national Journals

8 Book chapters and 1 edited book

5 chapters in books published by international Publishers

Main Contributions to the Scientific Coordination of Research Projects

- 3 chapters in books published by national Publishers
- 1 edited book in English published by a national Publisher
- 121 Communications presented at international and national Conferences
- 33 peer-reviewed publications in international conference proceedings
- 77 abstracts and communications at international conferences
- 12 abstracts and communications at national conferences

Principal Investigator in the following projects funded by international organizations:

- QUASAR-AI “QUAntification of SARcopenia in patients with Chronic Obstructive Pulmonary Disease using Artificial Intelligence for CT analysis of respiratory muscles: development of new biomarkers and outcome measures”. Funded by grant application PRIN (Progetti di Ricerca di Rilevante Interesse Nazionale, Research Projects of Relevant National Interest) 2022. Role: Local PI of CNR-IEIIT research unit and substitute general PI (Coordinator: Università degli Studi di Genova; participants: CNR-IEIIT, Università degli Studi di Palermo); Nov 2022-Oct 2025.
- PRAESIIDIUM “Physics-informed machine learning-based prediction and reversion of impaired fasting glucose management”, funded by the European Commission Horizon Europe Programme; Jan 2023-Dec 2025; GA n. 101095672; Call HORIZON-HLTH-2022-STAYHLTH-02; Role: Local PI of CNR-IEIIT research unit.
- WHISPER “Widespread Hearing Impairment Screening and PrEvention of Risk” funded by CAPITA Foundation (USA) under the 2020 and 2022 Auditory Research Grant calls (Coordinator: CNR IEIIT; Partner: Politecnico di Milano, Italy); Jan 2020 – Dec 2023.
- SCI-PHI “Segment-based Collective Intelligence for Population Health Improvement” funded by Nesta (UK) under the 2019 Collective Intelligence Grants call (Coordinator: CNR IEIIT; Partners: Ryerson University, Queen’s University, Toronto, Canada); Mar 2020 – July 2021.

Member of the scientific coordination team in the following national and international projects:

- “Pneulytics - Advances in pneumology via ICT and data analytics” funded by Fondazione Compagnia di San Paolo (Italy) (Coordinator: CNR IEIIT; Partners: CNR IMATI, Università degli Studi di Genova); Jan 2020 – Dec 2022.
- MARS-PRE “Biological and functional biomarkers for space precision medicine” [“Marcatori biologici e funzionali per la biomedicina astronautica di precisione”] funded by the Italian Space Agency (ASI, Agenzia Spaziale Italiana) (Coordinator: Università degli Studi di Padova; Partners: 15 Universities, Hospitals and Research Institutes, including CNR IEIIT); Aug 2019 – Feb 2022.
- AHEAD III “Assessment of Hearing in the Elderly: Aging and Degeneration Integration through Immediate Intervention”, funded by the EU FP7 (Coordinator: CNR ISIB; Partners: 17 Universities and Hospitals across Europe); 2008-2011
- PAS “Innovative auditory stimulation as enhancer of brain plasticity in tinnitus therapy”, funded by the Tinnitus Research Initiative TRI/link (Coordinator: Fondazione Ascolta e Vivi & CNR ISIB; Partners: five Universities and Hospitals globally, 2008-2009).

Member of partner teams in national projects

- National Project “Aging Program ” co-funded by the Italian Ministry of Education, University and Research (MIUR) and the Italian National Research Council (CNR) (2012-15), WP3.6 “Innovative techniques for the early detection of aging effects and neurodegeneration in the auditory system, particularly in Alzheimer’s disease”

Participation in Working Groups

Member of the following Working Groups:

- Trust & Policy Workgroup of the Mobilizing Computable Biomedical Knowledge (MCBK) International Initiative (since June 2022)
- National observatory “Software as a Medical Device” (SAMd) at the Italian Ministry of Health [Ministero della Salute], coordinated by Istituto Superiore di Sanità (established in February, 2020)
- WG on e-Cardiology of the European Society of Cardiology (since 2016)
- WG on e-Health and WG on Patient Registries of VASCERN (the European Reference Network on Rare Multisystemic Vascular Diseases) (since 2017)
- WG Passive Auditory Stimulation of TRI, the Tinnitus Research Initiative (from 2007 to 2009)

**RESEARCH EVALUATION,  
EDITORIAL EXPERIENCE AND  
PEER-REVIEW**

Research Evaluation

For European Funding Agencies:

- IHI (Innovative Health Initiative) Joint Undertaking, independent expert since 2023
- REA (Research Executive Agency), European Commission Horizon Europe and Horizon 2020 Work Programmes, Research and Innovation actions (R&I) and Marie Skłodowska-Curie Actions (MSCA), since 2014;
- EISMEA / EASME (Executive Agency for Small and Medium-sized Enterprises), European Innovation Council (EIC) SME Instrument / EIC Accelerator programs, since 2019
- EUREKA Association, Eurostars Programme (co-founded by EUREKA member countries and the EC Horizon 2020 Work Programme), since 2019
- COST Association (European Cooperation in Science and Technology), since 2017
- INNOWIDE framework (viability assessment of collaborative and INNOvative business solutions in WorldWIDE markets, Horizon 2020), since 2020

For International Funding Agencies

- Cyprus Research and Innovation Foundation (RIF): in 2023
- National centre of science and technology evaluation (NCSTE) in Almaty, Republic of Kazakhstan. Call for projects for the commercialization of the results of scientific and (or) scientific and technical activities for 2023-2025: since 2023
- Innovation Fund Denmark (IFD) Grand Solutions call: since 2019
- La Caixa Banking Foundation (Spain), Area of Research and Strategy, Health Research calls, 2018-2019
- South African National Research Foundation (NRF) and Swedish Foundation for International Cooperation in Research and Higher Education (STINT): Independent Expert Evaluator and Project Advisor, 2016 Research call
- German Federal Ministry of Education and Research (BMBF, Bundesministeriums für Bildung und Forschung von Richtlinien), program "Klinische Studien" 2014

For National Funding Agencies

- Innovation Fund "Fondo Tecnonidi" (support to high-innovation start-ups) by Regione Puglia, since 2019
- Call InnoProcess (support to high-innovation ICT projects in micro, small, and medium enterprises) by Regione Puglia, in 2022
- Ministero dello Sviluppo Economico (MISE), call "Digital Agenda" under the framework of Horizon 2020 Work Programme (PON 2014/2020), since 2017
- Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR): Project peer-review for the program PRIN (Progetti di ricerca di Rilevante Interesse Nazionale – Research Projects of Relevant National Interest), in 2016 and 2018
- Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca (ANVUR): Research peer-review in 2016 for the Italian Program VQR 2011-2014 (Valutazione della Qualità della Ricerca, Assessment of Research Quality) under the umbrella of GEV 09 (Industrial and Information Engineering), GEV 06 (Biomedical Sciences), and GEV 02 (Physical Sciences).
- Università di Padova, PISCOPIA Programme (EC FP7 Marie Curie Fellowship Programme): Proposal peer-review in 2014

Editorial Roles

Associate Editor for the following International Journals by leading Publishers:

- *International Journal of Audiology* (Informa Healthcare, Taylor & Francis group): since 2019
- *BioMedical Engineering OnLine* (Springer Nature, BioMed Central): since 2016
- *Heliyon* (Cell Press), section: Information Science-Health Data Analytics: 2022 - 2023
- *Informatics in Medicine Unlocked* (Elsevier): 2015 - 2017

Editorial Board member for the following International Journals by leading Publishers:

- *BMC Digital Health* (Springer Nature, BioMed Central): since 2022
- *BioMedical Engineering OnLine* (Springer Nature, BioMed Central): 2015 - 2016
- *Computers in Biology and Medicine* (Elsevier): 2013 - 2017

Guest Editor of the following Special Issues and Collections in International Journals:

- Research Topic "From the Ear to The Brain – New Data Analytics Techniques for a Better Understanding of Human Hearing" on *Frontiers in Neurology*, *Frontiers in Neuroinformatics*, and *Frontiers in Systems Neuroscience*: 14 articles published in 2022-23
- Collection "The Impact of IoT on Digital Health" on *BMC Digital Health*: X (overall) articles published in 2023-24
- Supplement "Selected articles from the 17th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2021)" on *BMC Medical Informatics and Decision Making* in 2022
- Special Issue "Trends in e-Health and m-Health: Technology developments for improved healthcare" on *BioMedical Engineering Online*: ten articles published in 2017-2018
- Research Forums (1) "The Brain and Hearing Aids"; (2) "Sensory Perception in Middle-Aged Adults"; (3) "Intervention and Outcomes of Children with Hearing Loss"; and (4) "Challenges in Hearing Health Care for the Oldest Older Adults" in *The American Journal of Audiology* (ASHA, American Speech-Language-Hearing Association): 15 articles published in 2015
- Research Forums (1) "Hearing Screening in Adults and Older Adults"; (2) "Aging and Hearing: Mechanisms and Effects"; and (3) "Intervention and Rehabilitation Strategies for Adults and Older Adults" in *The American Journal of Audiology* (ASHA, American Speech-Language-Hearing Association): 20 articles published in 2013.

#### Conference Program Committees

Member of the Technical Program Committee in International Conferences:

TPC co-chair of:

- Hearing Across the Lifespan (HEAL 2024), Jun 6-8, 2024, Cernobbio, Italy
- 9th EAI International Conference on IoT Technologies for HealthCare (EAI HealthyIoT 2022), 17 Nov 2022, virtual conference
- Hearing Across the Lifespan (HEAL 2014), Jun 5-7, 2014, Cernobbio, Italy
- Adult Hearing Screening (AHS 2012, AHS 2010) Jun 7-9, 2012 and Jun 10-12, 2010, Cernobbio, Italy
- Newborn Hearing Screening (NHS 2012, NHS 2010) Jun 5-7 2012 and Jun 8-10, 2010, Cernobbio, Italy.

TPC member of:

- 8th EAI International Conference on IoT Technologies for HealthCare (EAI HealthyIoT 2021), 24-26 Nov 2021, virtual conference.
- 17th Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2021), 15-17 Nov 2021, virtual conference <http://www.isa.cnr.it/cibb2021/>
- ARTIIS WORKSHOP, ET-AI SPECIAL SESSION <https://www.artiis.org/special-sessions/et-ai-2021>
- 7th EAI International Conference on IoT Technologies for HealthCare (EAI HealthyIoT 2020), Dec 2-4, 2020, virtual conference.
- 5th Experiment@ International Conference 2019 (Exp.at'19), Jun 11-14, 2019, Funchal, Madeira Island.
- 15th International Conference on Remote Engineering and Virtual Instrumentation (REV 2018), Mar 21-23 2018, Duesseldorf, Germany.

Member of the Organizing Committee in National Conferences:

- 6th National Congress of Bioengineering (GNB 2018), Jun 25-27 2018, Milan, Italy.

Co-organizer of Special Sessions at International Conferences:

- Symposium: Adult Hearing Screening: An Undemanded Need, at the 9th European Congress of the EUGMS (European Union of Geriatric Medicine Society). Oct 2-4, 2013, Venice, Italy
- Featured Session: Set the Sails for Adult Hearing Screening, at AudiologyNOW! 2013, the annual Meeting of the American Academy of Audiology. April 3-6, 2013, Anaheim, CA, USA.
- Special Session: Early Hearing Detection and Intervention for Adults, at the XXXI World Congress of Audiology (WCA 2012). April 29 – May 3, 2012, Moscow, Russia.

Peer Review of Scientific Articles  
and Conference Contributions

Reviewer for 38 International Journals in the fields of Engineering and eHealth. Examples: BioMedical Engineering OnLine (Springer Nature, BioMed Central); BMJ Open (BMJ Journals); Computers in Biology and Medicine (Elsevier); Computer Methods and Programs in Biomedicine (Elsevier); Frontiers in Neuroscience (Frontiers); IEEE Sensors Journal (IEEE Press); IEEE Transactions on Biomedical Circuits and Systems (IEEE Press); JMIR Journal of Medical Internet Research and sister Journals (JMIR Publications); The Lancet Digital Health; Medical & Biological Engineering & Computing (Springer); Medical Engineering and Physics (Elsevier); NPJ Digital Medicine (Nature Publishing Group).

Reviewer for 10 international and 1 national peer-reviewed Conferences in the fields of Biomedical Engineering and eHealth. Examples: International Conference of the IEEE-EMBS Engineering in Medicine and Biology Society; International IEEE-EMBS BHI Conference on Biomedical and Health Informatics; International IEEE-EMBS NER Conference on Neural Engineering; International Conference of the American Medical Informatics Association (AMIA Annual Symposium); Medical Informatics Europe (MIE), Conference of the EFMI European Federation for Medical Informatics; Congress of the Italian National Group of Bioengineering (GNB).

### LANGUAGE SKILLS

Mother Tongue

Italian

Other Language

English

Level

Level C1 of the Common European Framework of Reference for Language Understanding (Listening and Reading), Speaking (Spoken Interaction and Production), and Writing

Certification

TOEFL test (Computer Based), points 283/300

Scientific, Communication, and  
Organizational Skills

Multidisciplinary scientific background and a wide range of scientific and personal interests  
Significant organizational skills combining prominent aptitude for team working as well as independence and decision-making whenever needed

Creativity, ability to deal with unexpected events, problem solving, and adaptability

Strong communication and interpersonal contact skills in Italian and English

Fluency in writing Italian and English documents, reports, and essays in different styles, substantial experience in disseminating science to different target audiences

Familiarity with project calls and research protocols, proposal development, coordination, and impact evaluation including both scientific as well as social projects, thanks not only to professional experience but also to volunteer work with associations, organizations, and charities

Awareness of social issues and emotional sensitivity, pronounced disposition to contribute to social policy initiatives and humanitarian actions, active involvement in several initiatives as field volunteer and as contributor to organization and management of social projects and events

## LIST OF PUBLICATIONS

### ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

1. Carlevaro A., Lenatti M., **Paglialonga A.**, Mongelli M., "Multi-class counterfactual explanations using support vector data description," *IEEE Transactions on Artificial Intelligence*, Early Online. <https://doi.org/10.1109/TAI.2023.3337053>
2. Polo E., Farabbi A., Mollura M., **Paglialonga A.**, Mainardi L., Barbieri R., "Comparative assessment of physiological responses to emotional elicitation by auditory and visual stimuli," *IEEE Journal of Translational Engineering in Health and Medicine*. Vol. 12, pp. 171-181, 2024. <https://doi.org/10.1109/JTEHM.2023.3324249>
3. De Paola P.F., **Paglialonga A.**, Palumbo P., Keshavjee K., Dabbene F., Borri A., "The long-term effects of physical activity on blood glucose regulation: a model to unravel diabetes progression," *IEEE Control Systems Letters*, vol. 7, pp. 2916-2921, 2023. <https://doi.org/10.1109/LCSYS.2023.3290774>.
4. Rocco G., Bernardi G., Ali R., van Waterschoot T., Polo E.M., Barbieri R., **Paglialonga A.**, "Characterization of the Intelligibility of Vowel-Consonant-Vowel (VCV) Recordings in Five Languages for Application in Speech-in-Noise Screening in Multilingual Settings," *Applied Sciences*, vol. 13: 5344, 2023. <https://doi.org/10.3390/app13095344>
5. Guida F., Lenatti M., Keshavjee K., Khatami A., Guergachi A., **Paglialonga A.**, "Characterization of inclination analysis for predicting onset of heart failure from primary care electronic medical records," *Sensors*, vol. 23(9): 4228, 2023 (Special Issue "Advances in Biomedical Sensing, Instrumentation and Systems"). <https://doi.org/10.3390/s23094228>
6. **Paglialonga A.**, Theal R., Knox B., Kyba R., Barber D., Guergachi A., Keshavjee K., "Applying patient segmentation using primary care electronic medical records to develop a virtual peer-to-peer intervention for patients with type 2 Diabetes," *Future Internet*, vol. 15(4): 149, 2023 (Special Issue "Challenges and Opportunities in Electronic Medical Record (EMR)"). <https://doi.org/10.3390/fi15040149>
7. Lenatti M.\* , **Paglialonga A.\*** , Orani V.\* , Ferretti M.\* , Mongelli M.\* , "Characterization of synthetic health data using rule-based artificial intelligence models," *IEEE Journal of Biomedical and Health Informatics*, Special Issue "Advanced machine learning algorithms for biomedical data and imaging", vol. 27(8), pp. 3760-3769. <https://doi.org/10.1109/JBHI.2023.3236722> (\*all authors - equal contribution)
8. Lenatti M., Narteni S., **Paglialonga A.**, Rampa V., Mongelli M., "Dual-view single shot multibox detector at urban intersections: Settings and performance evaluation," *Sensors*, vol. 23(6): 3195, 2023. <https://doi.org/10.3390/s23063195>
9. Lenatti M., Carlevaro A., Keshavjee K., Guergachi A., Mongelli M.\* , **Paglialonga A.\*** "A novel method to derive personalized minimum viable recommendations for type 2 diabetes prevention based on counterfactual explanations," *PLOS ONE*, vol. 17(11): e0272825, 2022. <https://doi.org/10.1371/journal.pone.0272825> (\*co-last authors, equal contribution)
10. Lenatti M., Moreno-Sánchez P. A., Polo E. M., Mollura M., Barbieri R., **Paglialonga A.**, "Evaluation of machine learning algorithms and explainability techniques to detect hearing loss from a speech-in-noise screening test," *The American Journal of Audiology*, vol. 31(3S), pp 961-979, 2022 (Invited article in the *Special Issue* "Internet & Audiology"). [https://doi.org/10.1044/2022\\_AJA-21-00194](https://doi.org/10.1044/2022_AJA-21-00194)
11. Carlevaro A., Lenatti M., **Paglialonga A.**, Mongelli M., "Counterfactual building and evaluation via eXplainable Support Vector Data Description," *IEEE Access*, vol. 10, pp. 60849-60861, 2022. <https://doi.org/10.1109/ACCESS.2022.3180026>
12. Góngora L., **Paglialonga A.**, Mastropietro A., Rizzo G., Barbieri R., "A novel approach for segment length selection based on stationarity to perform effective connectivity analysis applied to resting-state EEG signals," *Sensors*, vol. 22(13): 4747, 2022 (Invited article in the *Special Issue* "Biomedical Sensors for Functional Mapping: Techniques, Methods, Experimental and Medical Applications"). <https://doi.org/10.3390/s22134747>
13. Zanet M., Polo E.M., Lenatti M., van Waterschoot T., Mongelli M., Barbieri R., **Paglialonga A.**, "Evaluation of a novel speech-in-noise test for hearing screening: classification performance and transducers' characteristics," *IEEE Journal of Biomedical and Health Informatics*, Special Issue "Enabling Technologies for Next Generation Telehealthcare", vol. 25(12), pp 4300-4307, 2021. <https://doi.org/10.1109/JBHI.2021.3100368>
14. **Paglialonga A.**, Gaetano R., Robert L., Hurard M., Botella L., Barr N., Jondeau G., Pini A., "eHealth for patients with rare diseases: the eHealth Working Group of the European Reference Network on Rare Multisystemic Vascular Diseases (VASCERN)," *Orphanet Journal of Rare Diseases*, vol. 16:164, 2021. <https://doi.org/10.1186/s13023-020-01604-4> (position statement).
15. Hammami L.\* , **Paglialonga A.\*** , Pruneri G., Torresani M, Sant M, Bono C., Caiani E.G, Baili P., "Automated classification of cancer morphology from Italian pathology reports using Natural Language Processing techniques: a rule-based approach," *Journal of Biomedical Informatics*, vol. 116:103712, 2021. <https://doi.org/10.1016/j.jbi.2021.103712>
16. Vaccari I., Orani V., **Paglialonga A.**, Cambiaso E., Mongelli M., "A generative adversarial network (GAN) technique for Internet of Medical Things data," *Sensors*, vol. 21(11): 3726, 2021. <https://doi.org/10.3390/s21113726>
17. **Paglialonga A.**, Polo E.M., Zanet M., Rocco G., van Waterschoot T., Barbieri R. "An automated speech-in-noise test for remote testing: development and preliminary evaluation" *The American Journal of Audiology*, vol. 29(3S), pp 564-576, 2020 (Invited article in the *Special Issue* "Internet & Audiology"). [https://doi.org/10.1044/2020\\_AJA-19-00071](https://doi.org/10.1044/2020_AJA-19-00071)
18. Tassone C., Keshavjee K., **Paglialonga A.**, Moreira N., Pinto J., Quintana Y. "Evaluation of mobile apps for treatment of patients at risk of developing gestational diabetes," *Health Informatics Journal*, vol. 26(3), pp 1983-1994, 2020. <https://doi.org/10.1177/1460458219896639>
19. **Paglialonga A.**, Lugo A., Santoro E. "An overview on the emerging area of identification, characterization, and assessment of health apps," *Journal of Biomedical Informatics*, vol. 83, pp.97-102, 2018. <https://doi.org/10.1016/j.jbi.2018.05.017>

\* Co-first authors

20. **Paglialonga A.**, Cleveland Nielsen A., Ingo E., Barr C., Laplante-Lévesque A., “eHealth and the hearing aid adult patient journey: a state-of-the-art review,” *BioMedical Engineering OnLine*, Special Issue *Trends in e-Health and m-Health: Technology developments for improved healthcare*, vol. 17:101, 2018. <https://doi.org/10.1186/s12938-018-0531-3>
21. **Paglialonga A.**, Schiavo M., Caiani E.G., “Automated characterization of mobile health apps’ features by extracting information from the web: an exploratory study,” *The American Journal of Audiology*, vol. 27(3S), 482-492, 2018 (Invited article in the *Special Issue* “Internet & Audiology”). [https://doi.org/10.1044/2018\\_AJA-IMIA3-18-0008](https://doi.org/10.1044/2018_AJA-IMIA3-18-0008)
22. **Paglialonga A.**, Pincirolì F., Tognola G., “The ALFA4Hearing model (At-a-glance Labelling for Features of Apps for Hearing healthcare) to characterize mobile apps for hearing health care”, *The American Journal of Audiology*, vol. 26(3S), Special Issue “Select Papers from the Hearing Across the Lifespan (HEAL) 2016 Conference”, pp. 408-425, 2017. [https://doi.org/10.1044/2017\\_AJA-16-0132](https://doi.org/10.1044/2017_AJA-16-0132).
23. **Paglialonga A.**, Tognola G., Pincirolì F., “Apps for hearing science and care,” *The American Journal of Audiology*, vol. 24(3), pp. 293-298, 2015. (Invited article in the *Research Forum* “Internet & Audiology”) [https://doi.org/10.1044/2015\\_AJA-14-0093](https://doi.org/10.1044/2015_AJA-14-0093)
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#### ABSTRACTS AND COMMUNICATIONS AT INTERNATIONAL CONFERENCES

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#### ABSTRACTS AND COMMUNICATIONS AT NATIONAL CONFERENCES

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