

# Sara Maria Pani

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## CURRENT POSITION

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1 DEC 2024 – CURRENT

- **RESEARCHER (RTT) IN PUBLIC HEALTH – UNIVERSITY OF CAGLIARI**

Department of Medical Sciences and Public Health

## EDUCATION

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2 Oct 2017 - 26 Gen 2021

- **PH.D. IN NEUROSCIENCE**

University of Cagliari (Italy) - Biomedical Sciences Department

**Thesis** "Functional brain networks: intra and inter-subject variability in healthy individuals and patients with neurological or neuropsychiatric diseases".

Clinic and research activities with a high multidisciplinary coefficient carried out at the Neurology Department [Sleep Centre, Department of Medical Sciences and Public Health] and Electrical and Electronic Engineering Department (DIEE) of Cagliari University. Practical and laboratory work: conceptualization and studies design; data collection; data preprocessing and statistical analysis; results presentation to a scientific/lay audience.

The project sat at the intersection between classical neuroscience and aspects related to engineering, signals' and neuroimaging processing, emphasizing multidisciplinary and international mobility. The common thread concerned variability and stability of individuals' features related primarily to functional connectivity and network and to the periodic and aperiodic components of EEG power spectra. We investigated: i) the impact of metrics to estimate functional connectivity on the ability to unveil personal neural fingerprints; ii) the possible association between power spectral density and some nodal network metrics; iii) how variability due to subject, task and session affects EEG power, connectivity, and network features; iv) how different specific aspects of psychosis-like experiences related to functional connectivity; v) the presence of differences in the periodic and/or aperiodic component of the EEG power spectra of patients affected by disorders arising in non-rem sleep. Aside from singular studies' results, the highlights concerned:

- the relevance of choosing connectivity metrics, design and results approach carefully
- the impact of subjects' personal neural fingerprint on the variance of a group
- the possible use of disease-related connectivity deviations as tools in preventive medicine
- the further proof of some significance behind "neural noise".

**Address** Cittadella Universitaria, S.S. 554 - Bivio Sestu, 09042, Monserrato (CA), Italy

**Website** <https://people.unica.it/dottoratoneuroscienze/> **Final grade** Graduate with first-class honours

**Link** [https://iris.unica.it/handle/11584/306215#\\_YHrGA-gzZPY](https://iris.unica.it/handle/11584/306215#_YHrGA-gzZPY)

JULY 2017

- **MEDICAL LICENSE**

Italian Ministry of Education, University and Research - University of Cagliari

Three-months-long practical evaluation while profession exercise [Family Medicine - Internal Medicine – Emergency Medicine] + Final Written test.

21 FEB 2017

- **MASTER'S DEGREE IN MEDICINE AND SURGERY**

University of Cagliari, Monserrato (CA), Italy

**Thesis** "Association between carotid plaque type and brain white matter damage"

**Final grade** 110/110 with first-class honours

**Address** Cittadella Universitaria, S.S. 554 - Bivio Sestu, 09042, Monserrato (CA), Italy

Website <https://www.unica.it/unica/it/homepage.page>

## ELECTIVE INTERNSHIPS/COURSES- SEMINARS- MASTERCLASS

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4 FEB – 15 APR 2025

- **Corso di Perfezionamento in Ricerca Clinica - Revisioni sistematiche della letteratura e meta-analisi – Università degli Studi Milano**

Skills acquired: comprehensive methodology for systematic reviews to produce high-quality reports suitable for international publication. Including: defining objectives, conducting literature searches, data extraction, bias assessment, and result synthesis. Training on the GRADE approach and using GradePro software for evidence quality evaluation.

2 FEB 2024 – 16 FEB 2024

- **VII Corso Percorsi diagnostico terapeutici assistenziali per le demenze – ISS Rome**

Skills acquired: i) identification of the methodological and clinical-organizational aspects for the development of Integrated Care Pathways (ICPs); ii) declination at the local level of ICPs construction phases; iii) identification of tools for ICPs monitoring and check implementation.

Istituto Superiore di Sanità- Centro Nazionale per la Prevenzione delle Malattie e la Promozione della Salute- Viale Regina Elena, 299- 00161 Roma.

6 FEB 2024 – 9 APR 2024

- **European Climate and Health Responders Course** - Global Consortium on Climate and Health Education- Live online course

Sections: FEB 06: Climate Change and Health FEB 13: Extreme Temperatures FEB 20: Wildfires and Air Quality FEB 27: Water Supply and Sanitation MAR 05: Vector Borne/Zoonoses MAR 12: Sustainable Lifestyles MAR 19: Sustainable health Care MAR 26: Climate Litigation and Health APR 02: Communication, Engagement and Advocacy in Climate Change APR 09: Europe in a Global Context: Climate Justice.

16 OCT 2023 – 20 OCT 2023

- **XVIII Corso "Epidemiologia clinica delle demenze" – ISS Rome**

Course objectives: 1) describe the methodological and clinical aspects of dementia epidemiology; 2) critical evaluation of the use and meaning of neuropsychological tests and clinical scales to diagnose and monitor the progression of the different forms of dementia; 3) evaluate the evidence of effectiveness and safety of the healthcare interventions used in the treatment of dementia.

Istituto Superiore di Sanità- Centro Nazionale per la Prevenzione delle Malattie e la Promozione della Salute- Viale Regina Elena, 299- 00161 Roma.

11-12 FEB 2023

- **Workshop Scientific Storytelling and Podcasting by Stefano Milano**

Scuola Holden, Piazza Borgo Dora, 49 10152 Torino (Italy)

17 JUL 2022 – 30 JUL 2022

- **ETC Summer Course [European Training Consortium in Public Health and Health Promotion]: Salutogenesis in Practice** - Residential Summer Course - Valencia (Spain)

Course focused on developing practical and theoretical tools to enhance health promotion strategies in Europe.

Post-graduate (Master) level; constitutes 200 hours of formal study. The learning approach is based on salutogenic principles using a global perspective.

JUN 2019

- **Specialistic course: Research methodology and data analysis**

University of Cagliari, Cittadella Universitaria S.S. 554, Bivio Sestu 09042 Monserrato (CA) Italy

1<sup>st</sup> module: principles of research methodology; 2<sup>nd</sup> module: data analysis; 3<sup>rd</sup> and 4<sup>th</sup> module: parametric tests; 5<sup>th</sup> module: non-parametric tests.

DEC 2018

- **Training course for academics : Development of teaching skills**

University of Cagliari; Cittadella Universitaria S.S. 554 09042 Monserrato (CA) Italy

DISCENTIA project: 5 modules; support for teachers' updating concerning teaching methodologies in the university environment; training new hires, doctoral students, technicians, and those who come into contact with students, also through e-learning, on university teaching issues and techniques, with specific attention to the student.

## TRAINING AND RESEARCH ACTIVITIES

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1 SEP 2023 – 1 DEC 2024

- **RESIDENT IN PUBLIC HEALTH - ITALIAN NATIONAL INSTITUTE OF HEALTH (ISS)**

Istituto Superiore di Sanità- Centro Nazionale per la Prevenzione delle Malattie e la Promozione della Salute – Viale Regina Elena, 299- 00161 Roma (Italy).

Internship at the Italian National Institute of Health - National Centre for Disease Prevention and Health Promotion, Unit of Promotion and Evaluation of Chronic Disease Prevention Policies. Currently working on projects related to neuroepidemiology, national and international public health actions and research for dementia and cognitive deterioration prevention.

1 NOV 2021 – CURRENT

- **RESIDENT - SCHOOL OF SPECIALIZATION IN PUBLIC HEALTH**

University of Cagliari (Italy) – Department of Medical Sciences and Public Health

Experiences/activities/projects (Department of Medical Sciences and Public Health of Cagliari University- AOU Cagliari- Cagliari and Quartu Parteolla District): i) re-orienting health services by engaging medical students and professionals with participatory research methods; ii) health-promoting programs in school settings; iii) customer satisfaction of users of Cagliari AOU (University Hospital); iv) food quality and safety monitoring and risk management; v) monitoring and surveillance activities to assess water quality (healthcare and private settings); vi) vaccination service (pediatric, young adults, adults); vii) hygiene of buildings, urban spaces and confined spaces.

9 JAN 2021 – 30 OCT 2021

- **POST-DOCTORAL RESEARCHER**

University of Cagliari (Italy)- Department of Medical Sciences and Public Health

Included in the project "Cardiovascular radiomic analysis" for the development of a radiomic analysis model of atherosclerosis based on CT and MRI images. I provided medical support in identifying appropriate models and logical and statistical approaches to be used. The last project proposed: "Stroke recovery: an integrated neuroimaging (EEG fMRI) approach to the correlation of EEG aperiodic measures, neural plasticity, and motor function". Worked also in collaboration with colleagues from the Electric and Electronic Engineering Department and Neurology Department of Cagliari University on projects regarding subject-specific functional connectivity characteristics and clinical applications of a comprehensive quantification of EEG power spectra features, including "brain noise".

OCT 2018 – AUG 2019

- **VISITING PH.D. STUDENT**

Monash University, BRAIN MIND AND SOCIETY RESEARCH HUB, School of Psychological Sciences, and Monash Biomedical Imaging 770, Blackburn Rd, Clayton, VIC , 3800 Melbourne (Australia).

I worked on fMRI data and applied Partial Least Square analysis on a healthy cohort to evaluate how different specific aspects of PLEs (psychosis-like experiences) related to functional connectivity and if there was a spatial correspondence between the CST (corticostriatal) circuits variations in healthy subjects experiencing PLEs and CST circuits changes suggested as a risk phenotype for psychotic diseases. We found an association between the FC of the circuit linking DC and regions of left dorsolateral PFC and medial PFC, and general PLEs severity.

**Address** Turner Institute for BMH, School of Psychological Sciences, and Monash Biomedical Imaging, 770 Blackburn Rd, Clayton, VIC , 3800, Melbourne, Australia

**Website** <https://www.monash.edu/researchinfrastructure/mbi/created-page/brain-mind-society>

## PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH GROUPS

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- **Cochrane Drugs and Alcohol Group Team - Information Specialist**- Participation in research activities aimed at producing and disseminating systematic reviews of studies on the prevention, treatment and rehabilitation of substance and alcohol use disorders, with the goal of enhancing the quality of life for affected individuals.
- Participation in research and planning activities for the prevention of dementia and stroke in the context of the **EUROPEAN JOINT ACTION JA-05 HEALTHIER TOGETHER EU NCD INITIATIVE** – Dementia and other neurological disorders (Work Package 7 coordinated by the National Institute of Health).
- Participation in the research activities of the **Unit of Promotion and Evaluation of Chronic Disease Prevention Policies** of the Italian National Institute of Health. Dementia Observatory (within the unit)- neuroepidemiology; analysis of the Regional Prevention Plans to prevent dementia and of the Diagnostic-Therapeutic Care Paths for people with dementia currently in force at a national level; research activities in public health within the framework of programs of the Italian Ministry of Health; collaboration in the implementation of systematic reviews and meta-analyses in the context of public health activities on the topic of cognitive impairment.
- Participation in the research activities of the Italian Society of Hygiene's **National Health Promotion working group**. The current focus is on the position of Italian universities concerning the integration of health promotion into university policies, vision, mission and planning.

## CLINICAL ACTIVITY

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- **Organizational development and information systems AOU Cagliari** (February 2022- July 2022): collaboration in organizational analysis of healthcare facilities with assessment of resource needs: corporate needs system, detection of needs of the AOU of Cagliari; presentation of the developed needs survey procedure and data sharing. Statistical and epidemiological health analyses, construction of matrices for the processing of clinical data.
- **Prevention Department ASL Cagliari** (July 2022- May 2023). **Vaccine prophylaxis service**: planning of users' individual vaccination calendar, carrying out pediatric, young adult and adult vaccinations. Use of the vaccination registry system (Avax); **SIAN** (Service of food and nutrition hygiene): prevention of health problems resulting from the consumption of food and drinks; application of regulations for official controls on food products and water intended for human consumption; assessment and categorization of food risk; surveillance and investigations of cases of food poisoning/food poisoning and food alert; nutritional surveillance and prevention (collective catering, food education, preventive dietetics); **Urban planning, construction and confined spaces hygiene, SISP** (Public Hygiene and Health Service): application of regulations and granting of suitability regarding social-welfare facilities, healthcare facilities, civil housing structures, removal of architectural barriers, mortuary police, public entertainment places and activities. Environmental investigations, prevention and control of legionellosis according to the 2015 guidelines.
- **Medical Department of AOU Cagliari** (May 2023 – September 2023): activities aimed at achieving the strategic objectives set by the General Management; management and general organization of the structures: collaboration in the definition and assignment of the budget and company objectives; verification of the adequacy of resources assigned and results obtained; integration between complex structures and departments; multidimensional evaluation of effectiveness, appropriateness and safety of the services provided (HTA + SC Quality). Care, collection, storage and transmission of health data; ensuring the compliance with privacy requirements; programming and monitoring human resources necessary for the organization of services provided; definition of training and update programs for professionals; coordination of emergency/urgency

activities (e.g., emergency military transports of people/organs); review of processes in a risk prevention logic based on specific relevant events.

- **Customer Satisfaction Program AOU Cagliari** (November 2021 – current): customer satisfaction- activities aimed at evaluating the expected and perceived quality of users of the Cagliari AOU; processing of questionnaires; participatory action research activities; collection and statistical analysis of results.  
Training interventions: collaboration in the design and implementation of training interventions for students and healthcare professionals regarding the quality of services offered by the AOU of Cagliari.

## SCHOLARSHIPS AND GRANTS

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1 NOV 2021 – 1 NOV 2025

- **Specialization Scholarship – Public Health**

2020 – 2021

- **Research fellowship - "Support and programming of neurocardiovascular radiomic"**

2017

- **GlobusDoc mobility grant for extra-EU training activities**

SEP 2017 – OCT 2020

- **Scholarship "P.O.R. Sardinia F.S.E. 2014-2020 Education and Training", PhD program in Neuroscience.**

## HONOURS AND AWARDS

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NOV 2022

### **"PerchèSi" Award – Sanofi**

The contest-hackathon is conceived and promoted by Sanofi in collaboration with Scuola Holden of Turin, and the patronage of the Italian Society of Hygiene Preventive Medicine and Public Health (Siti), the Italian Society of Neonatology (Sin), and the Italian Society of Pediatrics (Sip). The awarded project "SINdasubito" is an innovative multilingual and informative podcast on RSV (respiratory syncytial virus) aimed at expectant parents and new parents, including multilingual families (holders of 22% of the birth rate in Italy).

Link <https://www.youtube.com/watch?v=MFCBW460fBABV>

## NATIONAL AND INTERNATIONAL CONGRESSES AND CONFERENCES

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### ORAL COMMUNICATIONS AND WORKSHOPS

- 25° IUHPE World Conference on Health Promotion, ADNEC CENTRE Abu Dhabi (13-16 Maggio 2025):
  - Evaluating dimensional structure and validity of a shortened Italian version of HLS-EU-Q47 through network analysis.
  - Knowledge, attitudes, and behaviors towards a plant-based diet: health consequences and environmental impact. Comparative study between Italy and the Netherlands.

- 56° National Congress Italian Society of Hygiene, Preventive Medicine and Public Health (Palermo, 23-26 October 2024): La App “Alla salute! Segreti per un seno sano” per la prevenzione primaria del tumore della mammella.
- 7th International Conference on Salutogenesis Everyday life and crises as opportunities for salutogenic transformation- IUPHE International Union for Health Promotion and Education (Lodz – Polonia, 19-20 June 2024): Teaching salutogenesis to medical students: a photovoice experience.
- 12th European Conference on Health Promotion – IUPHE International Union for Health Promotion and Education (Lodz- Polonia, 17-18 June 2024): Health promoting schools – Evaluating the effectiveness of a pilot ergonomics program for middle school children.
- 56° National Congress Italian Society of Hygiene, Preventive Medicine and Public Health + 17° World Congress on Public Health (Roma, 2-6 May 2023): Il Certificato Di Assistenza al Parto come strumento di Health Inequalities Impact Assessment: analisi del punto nascita dell’Azienda Ospedaliera Universitaria di Cagliari- triennio 2019-2021;
- XII Regional Congress – Italian Society of Neonatology- Nascere in Sardegna, attualità e prospettive (Cagliari, 21 April 2023): Il progetto SINDasubito- comunicazione, prevenzione e promozione della salute 2.0
- 55° National Congress of the Italian Society of Hygiene, Preventive Medicine and Public Health - Rerum Cognoscere Causas Costruire saperi e competenze in prospettiva One Health (28 September 2022 – 1 October 2022, Padova)- Workshop: Communication, Literacy e Customer Satisfaction.
- Sardinian Regional Congress- Italian Society of Hygiene, Preventive Medicine and Public Health (11 June 2022, Monserrato): Analisi della Mortalità dei Distretti alla luce della Riforma del Sistema Sanitario- Regione Sardegna.
- XXX National Congress - Italian Association of Sleep Medicine (24- 26 October 2020): Sleep-related hypermotor epilepsy (SHE) and non-rapid eye movement (NREM) parasomnias: differences in the aperiodic component of the EEG power spectra.

## POSTERS E PITCH POSTERS

24-26 OCT 2024 Palermo

- **56° National Congress Italian Society of Hygiene, Preventive Medicine and Public Health**

- I Percorsi Diagnostico Terapeutici Assistenziali per le persone con demenza in Italia: valutazione di conformità alle Linee di Indirizzo Nazionali

Authors: S.M. Pani, D. Marconi, S. Salemme, G. Lazzeri, C. Sardu, P. Lorenzin, I. Bacigalupo, N. Vanacore, G. Bellomo

24-26 APR 2024 Krakow

- **36th Global conference of Alzheimer’s Disease International**

- A public health approach to dementia prevention in Italy: a critical reading and analysis of 21 regional prevention plans

Authors: G. Bellomo, D. Marconi, S. M. Pani, V. Casigliani, N. Vanacore, S. Salemme

- Integrated care pathways on dementia in Italy

Authors: G. Bellomo, D. Marconi, S. M. Pani, S. Salemme, P. Lorenzini, N. Vanacore

23 NOV 2023 – 25 NOV 2023 Firenze

- **XVIII SINDem (Autonomous association adhering to the Italian Society of Neurology for Dementia) 2023**

- Integrated care pathways on dementia in Italy: a new survey testing the compliance with a national guidance.

Authors: Guido Bellomo, I. Bacigalupo, F. Giaquinto, E. Salvi, G. Carnevale, R. Vaccaro, F. Matascioli, G. Remoli, P. Lorenzini, D. Marconi, S.M. Pani, N. Vanacore

2 MAY 2023 – 6 MAY 2023 Roma

- **56° National Congress SItI + 17° World Congress on Public Health**

- Unità per Stati Vegetativi in Sardegna: snodo assistenziale intraregionale per la riabilitazione di persone in stato vegetativo e in stato di minima coscienza all'esaurirsi dell'acuzie ospedaliera - dal modello sperimentale all'attivazione in regime ordinario.

Authors: V. Marras, F. Cadoni, S.M. Pani

- National Recovery and Resilience Plan- using the Health Project programming tool in Sardinia: Social Health Districts' mortality and aging index analysis from 2017 to 2021.

Authors: F. Cadoni, S. M. Pani, L. Minerba

- Implementing Health-Promoting Schools- Focus on ergonomics: are we verifying the effectiveness of awareness educational programs? A pilot study on the experience with middle-school children.

Authors: S.M. Pani, F. Gaccetta, F. Cadoni, A. Della Salda, A. Liori, P. Contu

Link <http://www.populationmedicine.eu/Issue-Supplement-2023,12550>

15 NOV 2022 Bologna

- **Health, Gender and Prevention – ANMDO (The Italian Association of Doctors of the Hospital Directions)**

- Ergonomics at school – an experience with middle-school children of the Metropolitan City of Cagliari

Authors: S.M. Pani, F. Gaccetta, F. Cadoni, A. Della Salda, A. Liori, P. Contu

- Community Action tools in the analysis of Citizen Satisfaction Participatory process in the analysis of Satisfaction

Authors: A. Della Salda, A. Liori, S.M. Pani, P. Contu

28 SEP 2022 – 1 OCT 2022 Padova

- **55° National Congress SItI - Rerum Cognoscere Causas Costruire saperi e competenze in prospettiva**

- Analisi di mortalità del periodo 2017-2021 di ASL e Distretti socio-sanitari della Regione Sardegna

Authors: F. Cadoni, S.M. Pani, L. Minerba

- L'eccesso di mortalità e l'indice di vecchiaia come potenziali strumenti per la progettazione di interventi afferenti al Progetto Salute – focus sulla Regione Sardegna.

Authors: S.M. Pani, F. Cadoni, L. Minerba

- Modello Teoretico di Citizen Satisfaction per i Servizi Sanitari.

Authors: A. Della Salda, S.M. Pani, A. Liori, P. Contu

Link <https://www.jpnh.org/index.php/jpnh/issue/view/110/62>

18 JUL 2022 Valencia

- **I° jornada Internacional XarxaSalut y symposium Concha Colomer**

- Ergonomics in class: the prevention technician goes to school.

Authors: S.M. Pani, F. Gaccetta, F. Cadoni, A. Della Salda, A. Liori, P. Contu

- Community Action tools in the analysis of Citizen Satisfaction- Participatory process in the analysis of satisfaction.

Authors: A. Della Salda, A. Liori, S. M. Pani, P. Contu

**PUBLICATIONS**

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- 1) Płóciennik-Korycka, P. K., **Pani, S. M.**, Bruc, B., Contu, P., & Wrześcińska, W. (2025). Exploring Manual Therapy in the Management of Irritable Bowel Syndrome in Adults: A Scoping Review. *Complementary Therapies in Medicine*, 103136. <https://doi.org/10.1016/j.ctim.2025.103136>
- 2) Elisa Fabrizi, Antonio Ancidoni, Nicoletta Locuratolo, Paola Piscopo, Francesco Della Gatta, Simone Salemme, **Sara Maria Pani**, Domitilla Marconi, Luca Vignatelli, Luciano Sagliocca, Paolo Caffarra, Piero Secreto, Antonio Guaita, Andrea Stracciari, Nicola Vanacore, Eleonora Lacorte; Guideline Working Group "The Italian guideline on diagnosis and treatment of dementia and mild cognitive impairment" *Age Ageing*. 2024 Nov 1;53(11):afae250. doi: 10.1093/ageing/afae250. PMID: 39544104; PMCID: PMC11564805.
- 3) Salemme, Simone, Marconi, Domitilla, **Pani, Sara Maria**, et al. (2024) "Universal Prevention of Dementia in Italy: A Document Analysis of the 21 Italian Regional Prevention Plans". *The Journal of Prevention of Alzheimer's Disease*. doi: <https://doi.org/10.14283/jpad.2024.144>;
- 4) Murgia, G., Coroneo, V., Zuddas, C., **Pani, S. M.**, & Cogoni, M. P. (2024). "Garden Snail Predatory Insects' Modus Operandi Under Laboratory Conditions". *Insects*, 15(11), 865. <https://doi.org/10.3390/insects15110865>
- 5) **Pani, Sara Maria**, et al. (2024) "Pilot evaluation of the effectiveness of an ergonomics awareness educational programme addressed to middle-school children". *Global Health Promotion* 1757-9759; doi: <https://doi.org/10.1177/17579759241252785>;
- 6) **Pani, Sara Maria**, et al. (2024) "Involving medical students in re-orienting health services: a photovoice study." *Journal of Preventive Medicine and Hygiene* 64.4: E471. doi: [10.15167/2421-4248/jpmh2023.64.4.3083](https://doi.org/10.15167/2421-4248/jpmh2023.64.4.3083);
- 7) **Pani, Sara Maria**, et al. (2024) "Microbiological characterization of a rearing system for the common sea urchin *Paracentrotus lividus*: a support to technical production regulations redaction and system monitoring." *Food Quality and Safety* 8: fyae012. doi: <https://doi.org/10.1093/fqsafe/fyae012>;
- 8) Murgia, M., **Pani, S. M.**, Sanna, A., Marras, L., Manis, C., Banchiero, A., & Coroneo, V. (2024). Antimicrobial Activity of Grapefruit Seed Extract on Edible Mushrooms Contaminations: Efficacy in Preventing *Pseudomonas* spp. in *Pleurotus eryngii*. *Foods*, 13(8), 1161. doi: <https://doi.org/10.3390/foods13081161>;
- 9) **Pani, Sara Maria**, Federica Cadoni, and Luigi Minerba (2024) "Study of the excess mortality associated with the SARS-CoV-2 pandemic in the Local Health Authorities and Districts of the Autonomous Region of Sardinia-quinquennium 2017-2021." *Annali di Igiene, Medicina Preventiva e di Comunità* 36.3. doi: <https://doi.org/10.7416/ai.2023.2589>;
- 10) **Pani, Sara Maria**, Luca Saba, and Matteo Fraschini. (2022) "Clinical applications of EEG power spectra aperiodic component analysis: A mini-review." *Clinical Neurophysiology* 143: 1-13. doi: <https://doi.org/10.1016/j.clinph.2022.08.010>;
- 11) **Pani, Sara M.**, et al. (2021) "Sleep-related hypermotor epilepsy and non-rapid eye movement parasomnias: Differences in the periodic and aperiodic component of the electroencephalographic power spectra." *Journal of Sleep Research* 30.5: e13339. doi: <https://doi.org/10.1111/jsr.13339>;
- 12) **Pani, Sara Maria**, et al. (2021) "A multivariate analysis of the association between corticostriatal functional connectivity and psychosis-like experiences in the general community." *Psychiatry Research: Neuroimaging* 307: 111202. doi: <https://doi.org/10.1016/j.psychresns.2020.111202>;
- 13) **Pani, Sara Maria**. PhD Degree (2021) "Functional brain networks: intra and inter-subject variability in healthy individuals and patients with neurological or neuropsychiatric diseases." Identificativo: <https://hdl.handle.net/11584/306215>.

- 14) **Pani, Sara Maria**, et al. (2020) "Subject, session and task effects on power, connectivity and network centrality: A source-based EEG study." *Biomedical Signal Processing and Control* 59: 101891. doi: <https://doi.org/10.1016/j.bspc.2020.101891>;
- 15) Demuru, M., La Cava, **S. M., Pani**, S. M., & Fraschini, M. (2020). A comparison between power spectral density and network metrics: an EEG study. *Biomedical Signal Processing and Control*, 57, 101760. doi: <https://doi.org/10.1016/j.bspc.2019.101760>;
- 16) Fraschini, M., **Pani, S. M.**, Didaci, L., & Marcialis, G. L. (2019). Robustness of functional connectivity metrics for EEG-based personal identification over task-induced intra-class and inter-class variations. *Pattern Recognition Letters*, 125, 49-54. doi: <https://doi.org/10.1016/j.patrec.2019.03.025>;

## DIGITAL SKILLS

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Microsoft Office™(Word™, Excel™, PowerPoint™); SPSS, Jamovi, GPower; Experience with programming languages: (MATLAB, Python, Bash); EEGLAB and PLS toolbox FSLeys; CONN; Micromed Brain Quick; BioTekna Plus!; Basic knowledge of graphic design applications (Adobe Illustrator™, PhotoShop™, Gimp)

## LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN | SARDINIAN**

Other language(s):

	<i>UNDERSTANDING</i>		<i>SPEAKING</i>		<i>WRITING</i>
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>FRENCH</b>	B2	B2	B1	B1	A2
<b>SPANISH</b>	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e dell'art. 13 del GDPR (Regolamento UE 2016/679).