

Philippe LASAYGUES

Senior research engineer (IRHC)

French National Centre for Scientific Research (CNRS)

Laboratory of Mechanics and Acoustics - LMA UMR 7031

"Wave & Imaging" Group

Head of the CNRS platform on Ultrasonic Science

Technical head of the education platform on ultrasound AMU & Centrale Méditerranée

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Professional Affiliations

- European Acoustics Association (**EAA member**)
Technical Committee on Ultrasound (TC-ULT);
- French Acoustical Society (**SFA member**)
Physical acoustics, Underwater acoustics, Ultrasonic group (GAPSUS)



Education

- *2006:* Award of the French Habilitation Qualification (HDR), Aix Marseille University.
- *1992:* Ph-D degrees in Acoustic, Aix Marseille University.

Career

- *1989-92:* Ph-D Student, Laboratory of Mechanics and Acoustics, CNRS, Marseille.
- *1992:* Engineer, DIGILOG Company, Aix-en-Provence.
- *1992-96:* Sound engineer, technical manager and deputy director, ALCTRA, Paris.
- *1996:* Research Engineer (IR), Laboratory of Mechanics and Acoustics, CNRS, Marseille.
- *2011:* Senior Research Engineer (IRHC), Laboratory of Mechanics and Acoustics, CNRS, Marseille.

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Honors

2001: Pierre Chavasse Award, French Acoustical Society (SFA).

Research fields

- Ultrasonic imaging, ultrasound, wave propagation, inverse problem, computed tomography;
- Biomedical engineering, non-destructive applications, tissue characterization;
- Signal processing and experimental engineering;

❑ National and International (major) Projects

CNRS EfUSTTéP 2025 (TL), EIC Pelvitrack 2025 (M), AAP LMGC SofRepair (M), PEPR FORESTT 2023 (M), ANR INVICT-US 2023 (TL), AMU ARCHé-US 1&2 (PI), CNRS MéCASUROS 2021 (TL), AMU THEOS 2021 (PI), CNRS SUBITO 2016 (TL), ANR BioGMID 2012 (PI), ANR MALICE 2015 (PI), ANR BBMUT 2015 (TL), ANR SMART-US 2014 (TL), ANR CUMBA 2017 (TL), "Provence-Alpes Côte d'Azur" Council 2016 (PI), IC STAR MUSEM 2015 (TL), IC STAR CROISSANCE 2016 (TL), IC STAR IUQUA 2016 (TL), FSR Suisse (PI), NRC Canada (PI), ECOS Nord Colombia (PI).

PI = principal investigator, TL = task leader, M = member of team

❑ Collaborations (currently)

Marseille (IRPHE, CRCM, IUSTI, APHM, CERIMED), **France** (LMGC, IMT Mines Alès, LAAS Toulouse, IBV Nice, ICOA Orléans, Institute Clément ADER, Tarbes, CIRAD Montpellier)

❑ Teaching (currently)

- since 1996, Polytech Marseille, GBM (*Ultrasonic B-mode imaging*)
- 2008-2025, University Institute of Technology-AMU, "Mesures Physiques" (*Current Ultrasound Quality Control*)
- since 1996, Centrale Méditerranée (*Ultrasonic B-mode imaging*)
- since 2008, Technical head of the education platform on ultrasound (AMU & Centrale Méditerranée);

❑ Expert

- 20 PhD Thesis referees and Qualifications (HDR), 84 Training courses & master's degree.
- Excellence Initiative of Aix Marseille University - A*Midex : Institute of Mechanics and Engineering (IMI), Marseille-Imaging, Ocean, institute of Mediterranean Archaeology (ARKAIA)
- French Directorate for Research & Innovation (DGRI), French National Agency (ANR) ; National Research Council Canada (NRC);

❑ Steering Committees

French/European Acoustical Congress (1997, 2008, 2012, 2013, 2014, 2016, 2020, 2022); *4th International Conference on Ultrasonic-based Applications: from analysis to synthesis 2020*; *9th Forum Acusticum 2020*; *8th International Symposium on Ultrasonic Characterization of Bone - ISUCB 2019*; *International Congress on Ultrasonics* (WCU 2003, ICU 2015); *Acoustical Society of America* (Acoustics 2008);

❑ Honor thesis (recent)

- BRELY Mia (2028 - *Effects of Ultrasound on Brain Tumors in Children*), France
- JUSTINIANY Lisa (2027 - *Studying bone fracturing in archaeology*), France
- DOVERI Elise (2023 - *Ultrasound diagnostic and therapy*), France
- CAILLY William (2020 - *Ultrasound Computed Tomography of pipes and plates*), France

❑ Publications (updating April 26)

- RG interest Score, 823.7, h-index = 22.
- Google Scholar, h-index = 24 ; i10-index = 53.

5 Keynote lectures; **6** Chapters in book; **64** Refereed Journal Articles; **168** Non-refereed journal articles & Congress; **26** Seminars (international & national).

