

Newsletter's Summary

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Get a reminder on upcoming events and deadlines.
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Find your dream job in this fresh list of opportunities!
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This month discover a publication from University of Eastern Finland, Kuopio, Finland.

Board's Highlights



NEWS

Read about a two-year international Master program named WAVES between Marseille, Valencia and Coimbra.

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Read about a publication on estimating the material parameters of an inhomogeneous poroelastic plate.

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Upcoming Events



December 2019

24th - 25th — ISAV 2019 — 9th International Conference on Acoustics and Vibration.
Tehran, Iran



January 2020

15th -17th — AFPAC 2020 — Physical Acoustics. South Croydon, United Kingdom



30th - 31th — ICANCE 2020 — International Conference on Acoustics and Noise Control
Engineering. Sydney, Australia



31th — IYS 2020 — Opening Ceremony of the International Year of Sound. Paris, France



February 2020

17th - 19th — Medyna 2020 — Mediterranean Conference on Structural Dynamics and
Vibroacoustics. Napoli, Italy



20th — Public workshop — Hands-on workshop Destin. Florida, USA



25th — Public workshop — Digitization of Urban Noise and Sound in a Smart Nation.
Singapore, Singapore



Upcoming Deadlines



December 2019

- 12th — ICUACAT 2020** — International Conference on Underwater Acoustic Communications and Acoustic Transceiver. Tokyo, Japan. **Abstract submission**
- 12th — ICANCE 2020** — International Conference on Acoustics and Noise Control Engineering. Sydney, Australia. **Abstract submission**
- 12th — ICAANS 2020** — International Conference on Architectural Acoustics and Noise Control ICAANS 2020. Lisbon, Portugal. **Abstract submission**
- 12th — ICUAESP 2020** — International Conference on Urban Acoustic Environments and Sound Planning. London, UK. **Abstract submission**
- 15th — Medyna 2020** — Mediterranean Conference on Structural Dynamics and Vibroacoustics. Napoli, Italy. **Paper submission**
- 31th — ICANCE 2020** — International Conference on Acoustics and Noise Control Engineering. Sydney, Australia. **Paper submission**



Upcoming Deadlines



January 2019

- 15th — IC BEN 2020** — Congress on Noise as a Public Health Problem. Stockholm, Sweden. [Abstract submission](#)


- 15th — ISMA 2020** — International Conference on Noise and Vibration. Leuven, Belgium. [Abstract submission](#)


- 15th — USD 2020** — Uncertainty modelling in structural dynamics. Leuven, Belgium. [Abstract submission](#)


- 17th — Quiet Drones** — Quiet Drones. A Symposium on Noise from UASs/UAVs. Paris, France. [Abstract submission](#)



- 31th — ICUA 2020** — International conference on Underwater Acoustics. Southampton, UK. [Abstract submission](#)



- 31th — ICSV 27** — 27th International Congress on Sound and Vibration. Prague, Czech Republic. [Peer-review paper submission](#)




February 2019

- 13th — ICASSP 2020** — International Conference on Acoustics, Speech, and Signal Processing. Barcelona, Spain. [Paper submission](#)


- 13th — ICASSP 2020** — International Conference on Acoustics, Speech, and Signal Processing. Barcelona, Spain. [Author registration](#)


- 17th — BNAM 2020** — Baltic-Nordic Acoustics Meeting. Oslo, Norway. [Paper submission](#)



News



Erasmus Master WAVES

The program WAVES (Waves, Acoustics, Vibrations, Engineering and Sound) is a two-year international Master course fully taught in English, awarding multiple national Master's degrees and a Joint Diploma Supplement with the support of the Erasmus Mundus Program of the European Union.

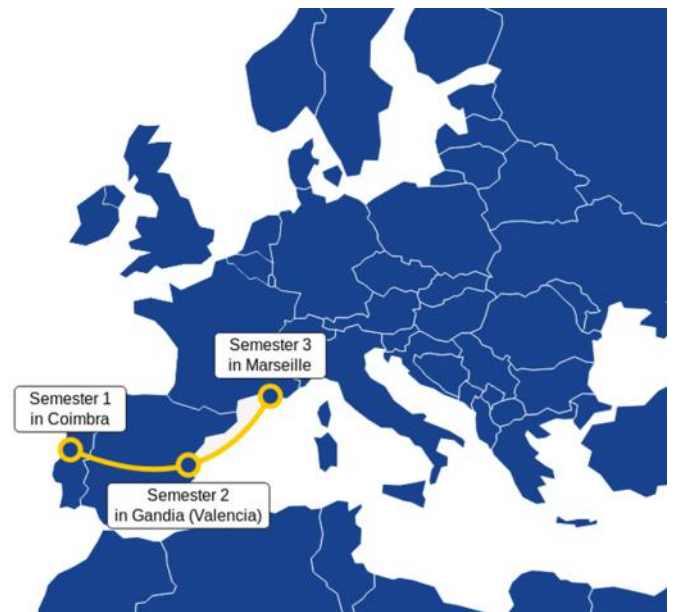
The main objective of the master is to provide the students with expertise in experimental methodology, numerical modelling and theory in order to be able to design, characterize, model and understand acoustical systems and devices.

This is a master's degree in Acoustics with mobility at three different locations: the first semester is spent in Coimbra (Portugal), the second one in Valencia (Spain) and the third one in Marseille (France). The fourth semester is devoted to do an internship.

Applications are already open and will be available on the website until February 16, 2020. It is also possible to apply for funding, provided one fulfills the requirements.

You can find detailed information about this program (admission criteria, study program, etc.) and funding rules on the website

master-waves.eu



Job Announcements



Postdoctoral Position on 'Animal communication and urban evolution', Vrije Universiteit Amsterdam (VU Amsterdam). Amsterdam, Netherlands.



PhD Position 'EEG and audio processing for neuro-steered hearing aids', KU Leuven. Leuven, Belgium.



PhD Studentship 'Development of a small-scale low-cost underwater vehicle for acoustic noise assessment', Southampton University. Southampton, United Kingdom.



Acoustics Consultant / Senior Acoustics Consultant, Arcus. North East, South East, York or Glasgow, United Kingdom.



Assistant Acoustic Consultant, RPS. Brighton, United Kingdom.



Acoustics Consultant, HA Acoustics. East Anglia & London, United Kingdom.



Junior Scientist – Numerical Modelling, North Atlantic Treaty Organization (NATO). La Spezia, Italy.



Engineer with Acoustics and DSP experience, TERMA Group. Lystrup, Denmark.



Responsible for Acoustics, VINCI Construction. Nanterre, France.



Research Assistant in Flycatcher Studies, Stockholm University. Stockholm, Sweden.



Publications



Estimating the material parameters of an inhomogeneous poroelastic plate from ultrasonic measurements in water

The estimation of poroelastic material parameters based on ultrasound measurements is considered. The acoustical characterisation of poroelastic materials based on various measurements is typically carried out by minimising a cost functional of model residuals, such as the least squares functional. With a limited number of unknown parameters, least squares type approaches can provide both reliable parameter and error estimates. With an increasing number of parameters, both the least squares parameter estimates and, in particular, the error estimates often become unreliable. In this paper, the estimation of the material parameters of an inhomogeneous poroelastic (Biot) plate in the Bayesian framework for inverse problems is considered. Reflection and transmission measurements are performed and 11 poroelastic parameters, as well as 4 measurement setup-related nuisance parameters, are estimated. A Markov chain Monte Carlo algorithm is employed for the computational inference to assess the actual uncertainty of the estimated parameters. The results suggest that the proposed approach for poroelastic material characterisation can reveal the heterogeneities in the object, and yield reliable parameter and uncertainty estimates.

About the author

Matti Niskanen is a PhD student pursuing his doctorate from two universities in a cotutelle (joint PhD) program. His research interests center around acoustics and various inverse problems related to parameter estimation and tomography. His thesis focuses on characterising the physical properties of porous materials using acoustical methods and Bayesian inversion.



During his doctoral studies Matti has gained research expertise in multiple highly ranked host institutions. He started his PhD in the Laboratoire d'Acoustique de l'Université du Mans (LAUM), France, where he spent 18 months, and is currently based in the Department of Applied Physics in the University of Eastern Finland (UEF). Additionally, he has spent time in Professor Jari Kaipio's group at the University of Auckland, New Zealand.

Matti received his M. Sc. degree in computational physics at UEF in 2014. He has received multiple travel grants and a one-year research grant from the Jenny and Antti Wihuri foundation.

INFOS

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