



University of
Salford
MANCHESTER

www.acoustics.salford.ac.uk



Acoustics Research Centre

Fellowship Opportunities



Acoustics at Salford: fact and figures

- Acoustics research since 1958 and courses since 1974.
- 12 Research-active academics (faculty)
- 10 Commercial staff
- 6 Post-docs
- 20+ Research Students
- £0.9M/annum grant income
- £0.7M/annum commercial research and testing income

Laboratories

- Anechoic chamber
- 2x hemi-anechoic chamber
- Transmission suite
- Reverberation chamber
- 2x Listening room
- Calibration laboratory
- Extensive measurement systems



Acoustics for Health, Well-being & Accessibility

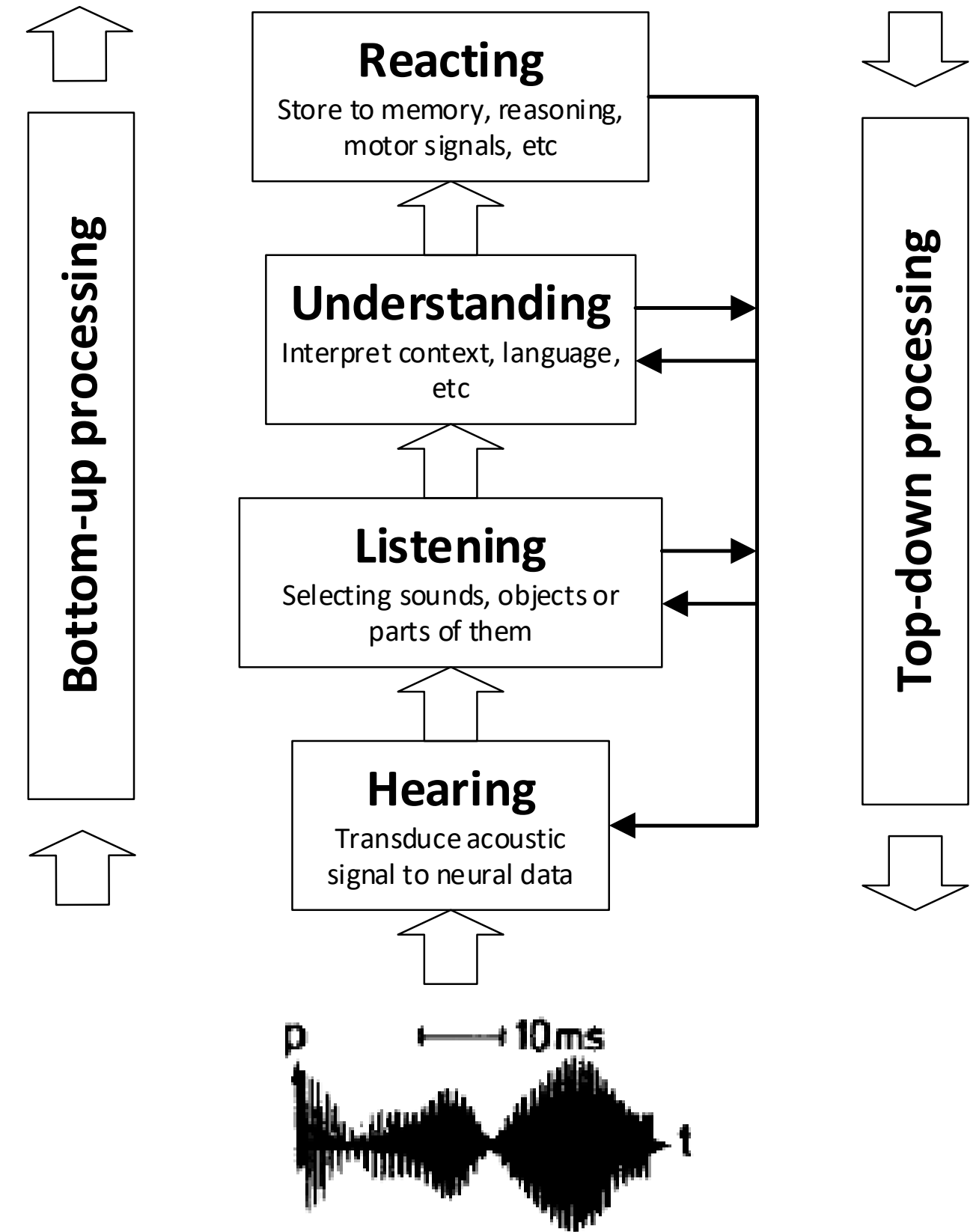
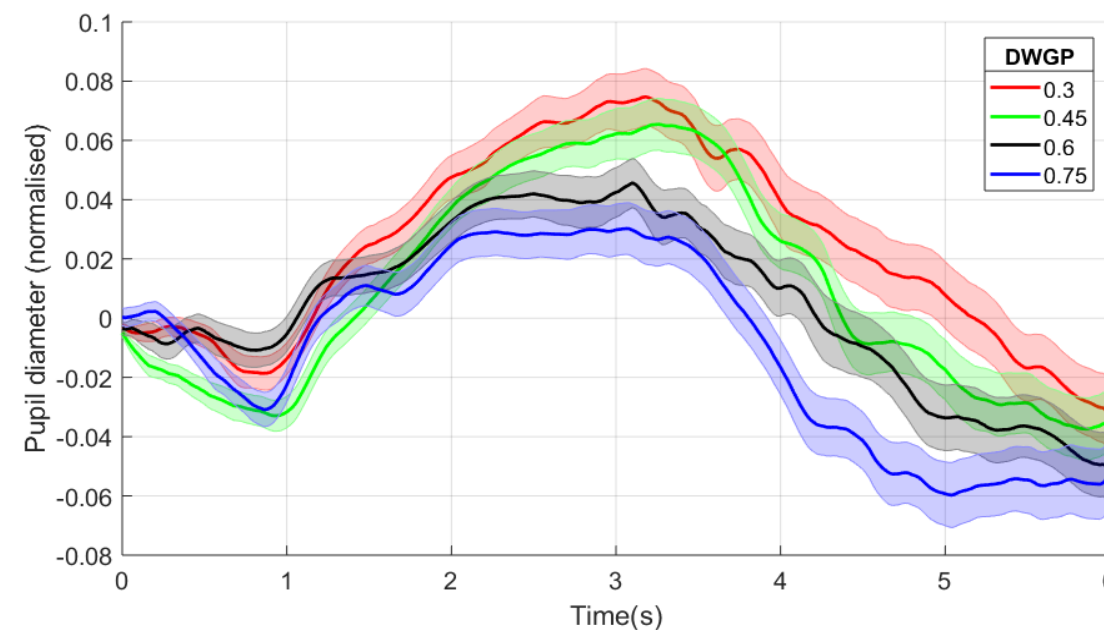
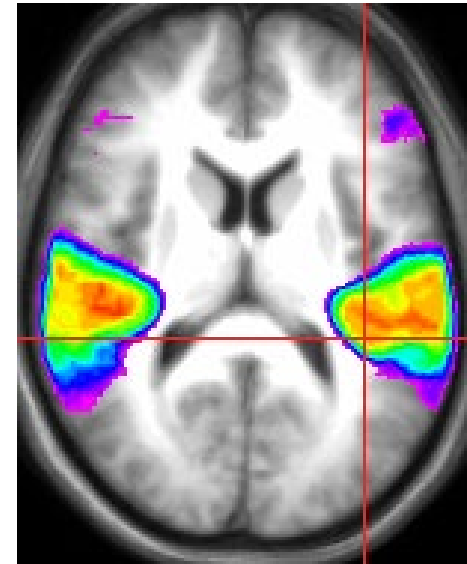
- Healthcare technology e.g. hearing aids
- Accessible audio, AR/VR
- Aural diversity
- Sound therapy
- Environmental Noise and soundscapes
- Perceptual engineering
- Bioacoustics

Industrial Acoustics

- Centre for Built Environment Acoustics
- National Institute Airborne Acoustic Metrology
- Vibro-acoustics
- Materials
- E-mobility
- Perceptual engineering
- High intensity testing
- Audio systems
- Computer modelling
- Machine learning

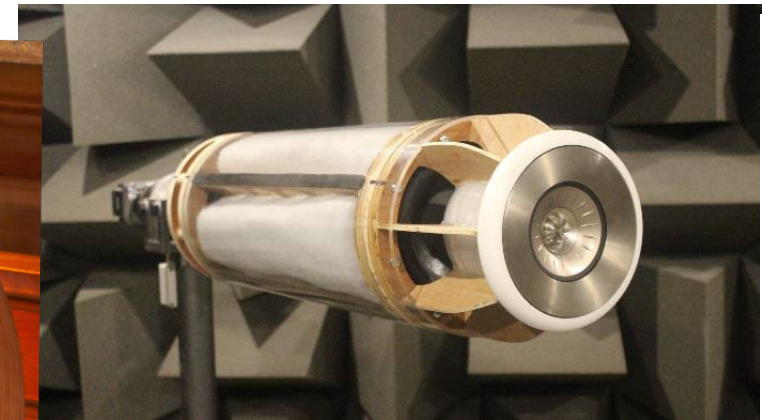
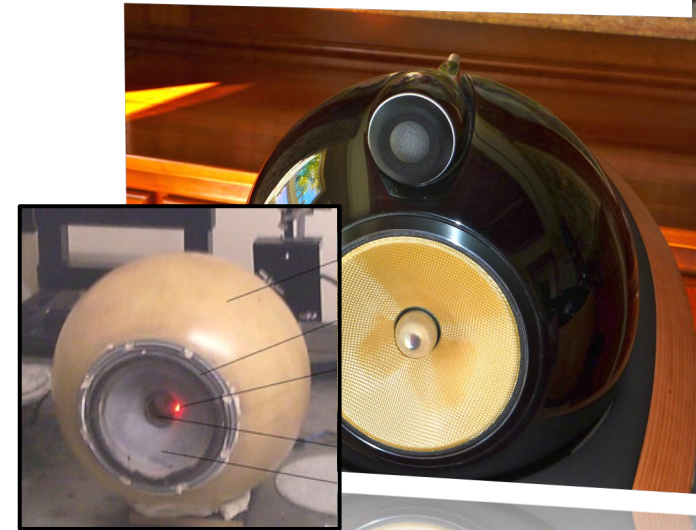
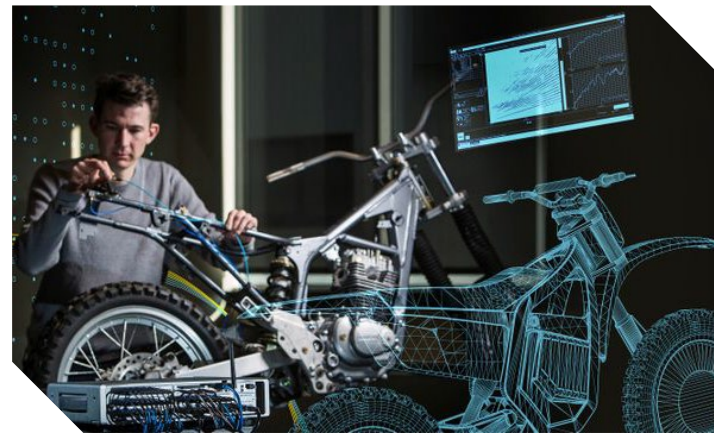
Bill Davies w.davies@salford.ac.uk

- **Expertise:**
 - Soundscape
 - Psychoacoustics
 - Room acoustics
 - Noise annoyance
- **Potential topics:**
 - Aural diversity
 - Autistic listening
 - Individual difference
 - Acoustic lego
 - Intelligent sound level meter
 - Quality mapping



Dr Jonathan Hargreaves (j.a.hargreaves@salford.ac.uk)

Computer
Simulation
Algorithms

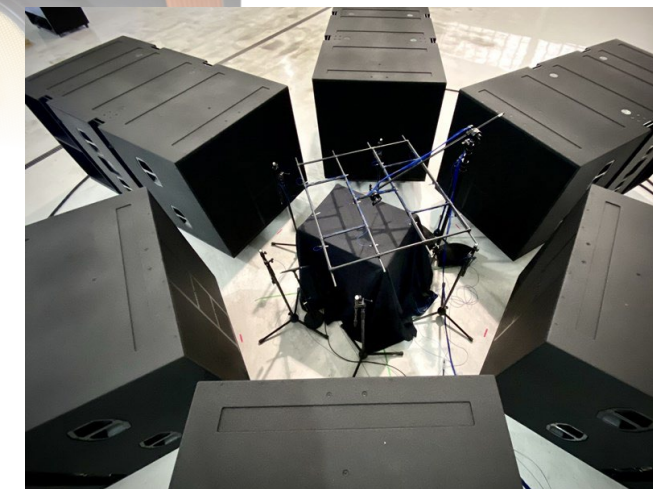


Electroacoustics

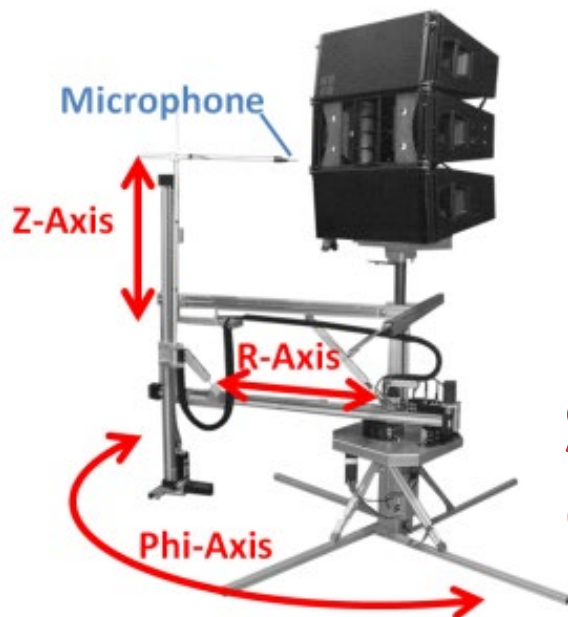


Auralisation

Laser Doppler
Vibrometry



Live
Sound



Source
Characterisation

Material Characterisation



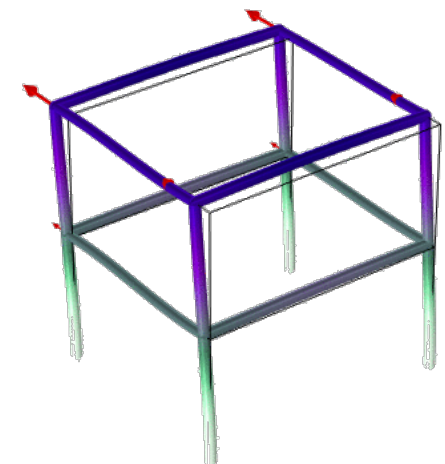
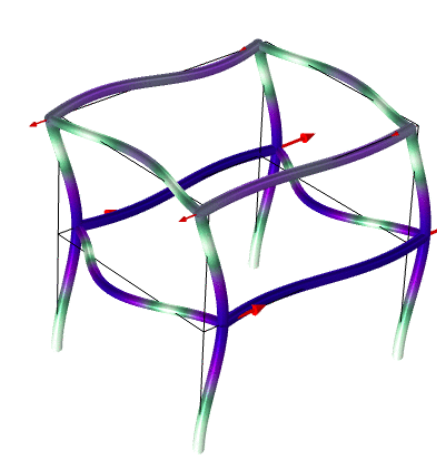
Microphone & Loudspeaker Arrays



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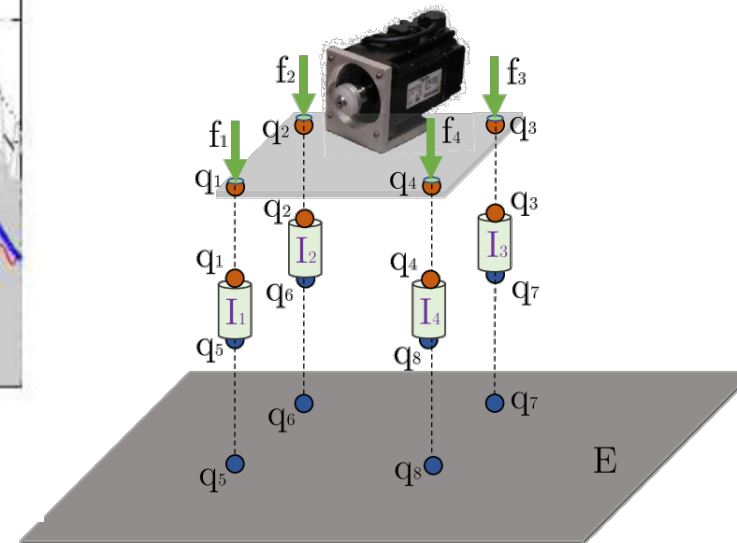
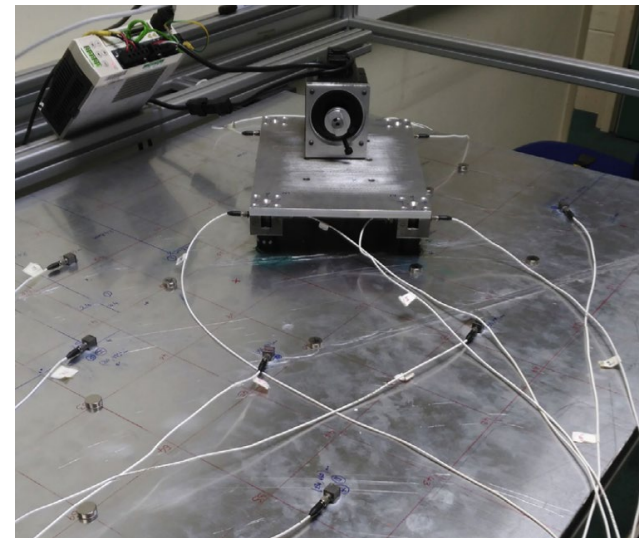
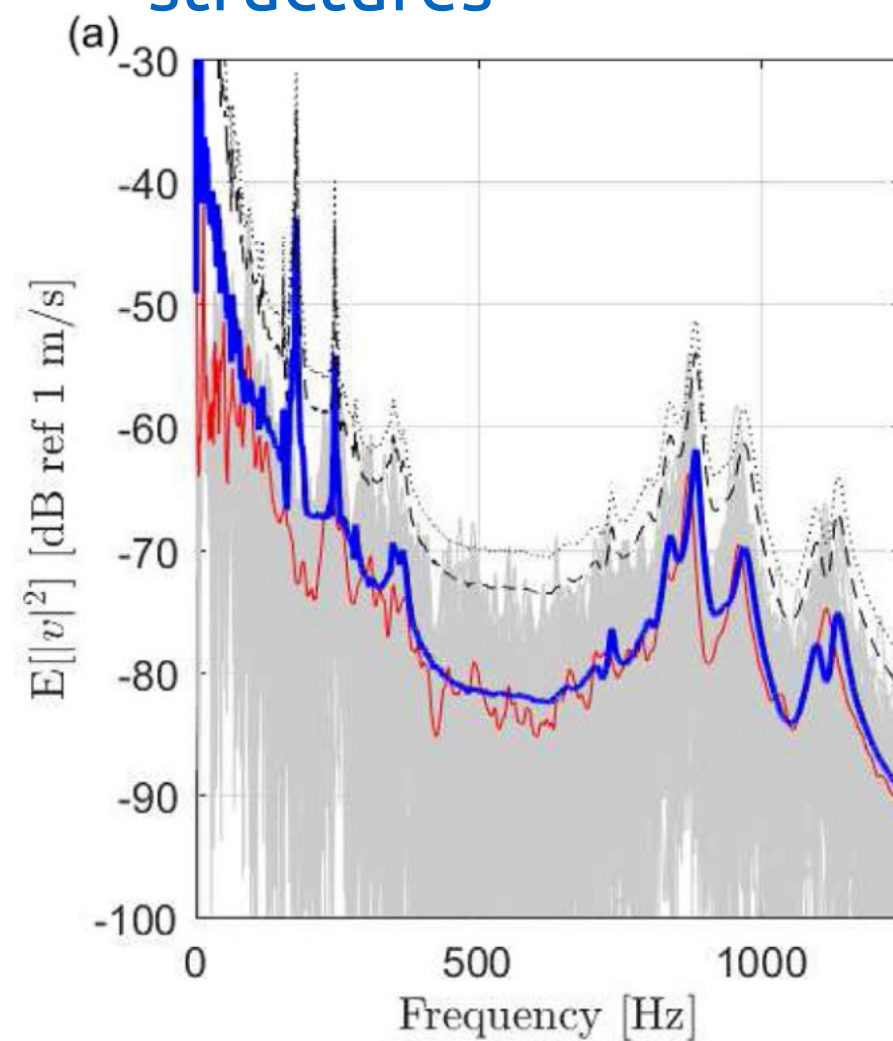
Vibro-acoustics and structural dynamics

Joshua Meggitt j.w.r.meggitt1@salford.ac.uk



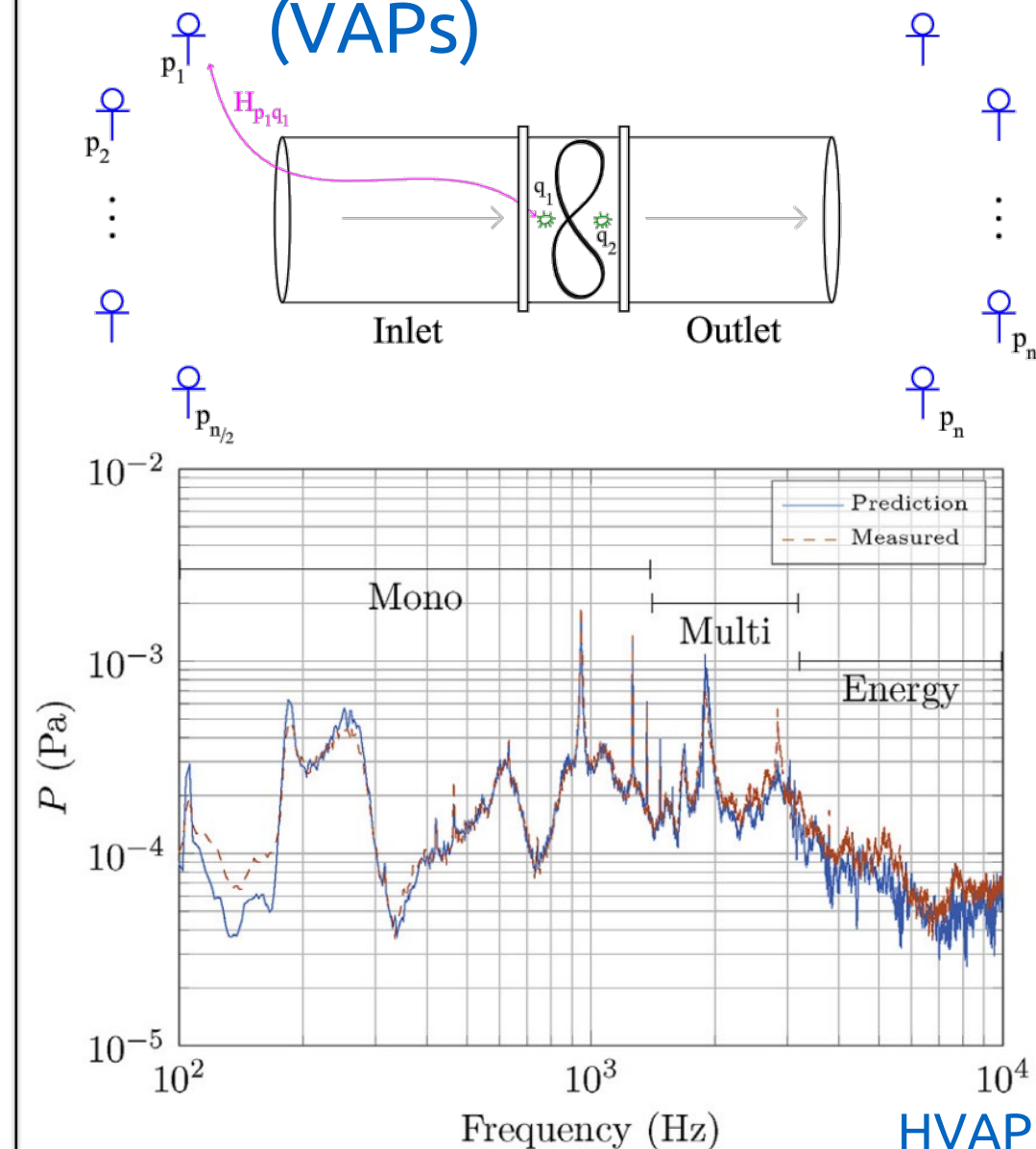
Topics: characterisation of vibro-acoustic components, **prediction** of noise and vibration in complex assemblies, **developing** *hybrid models* that combine experimental data and numerical modelling, treatment of **uncertainty** (quantification and propagation) in vibro-acoustics.

Predicting vibration response in complex structures



EMBED in collaboration with Uni of Cambridge

Developing Virtual Acoustic Prototypes (VAPs)

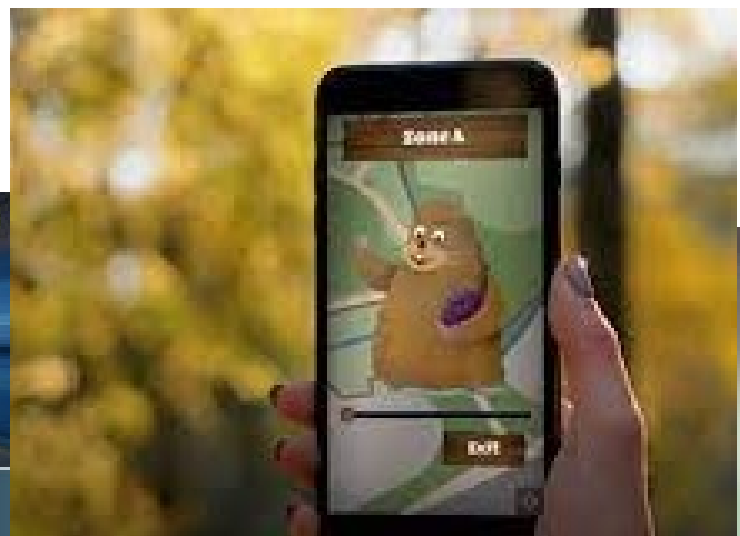


HVAP in collaboration with
Dyson

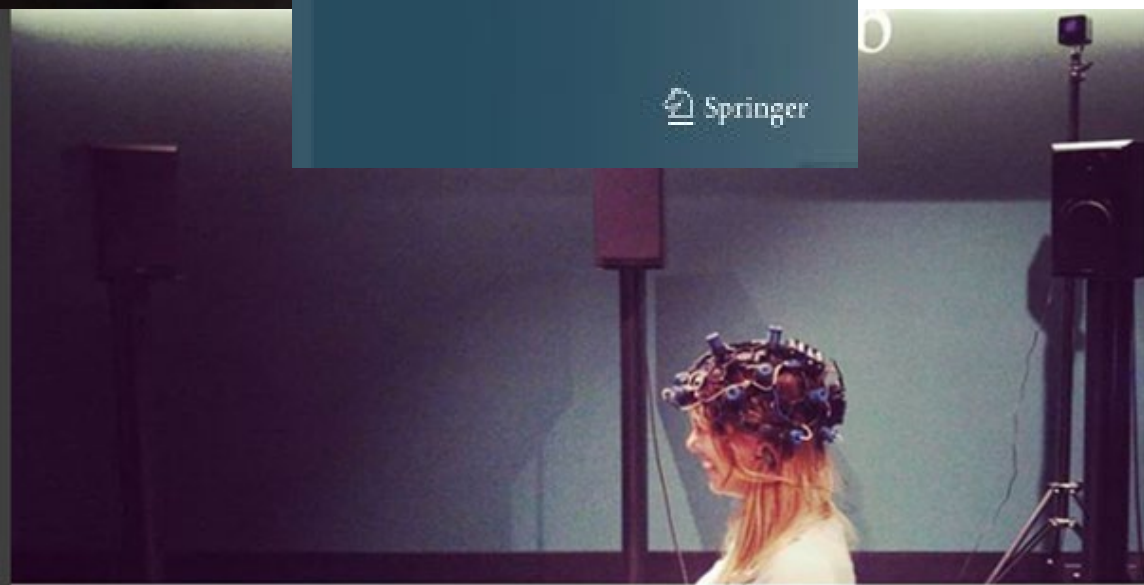
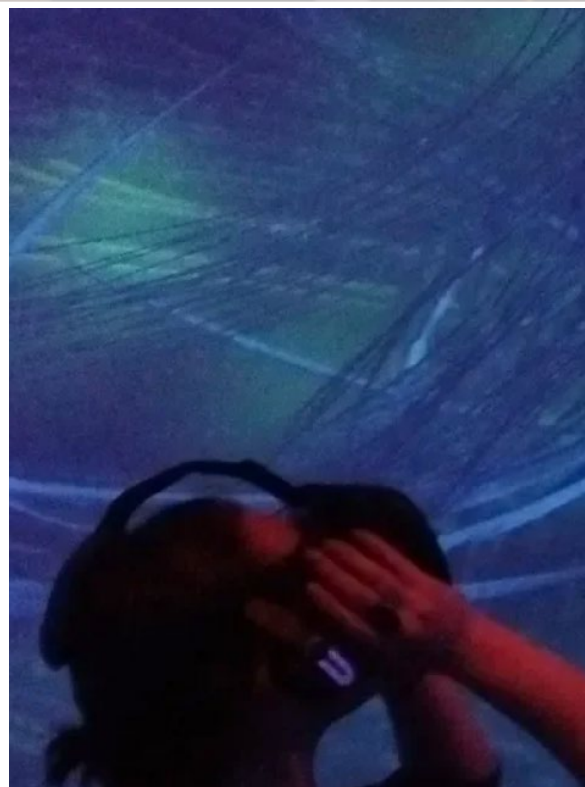


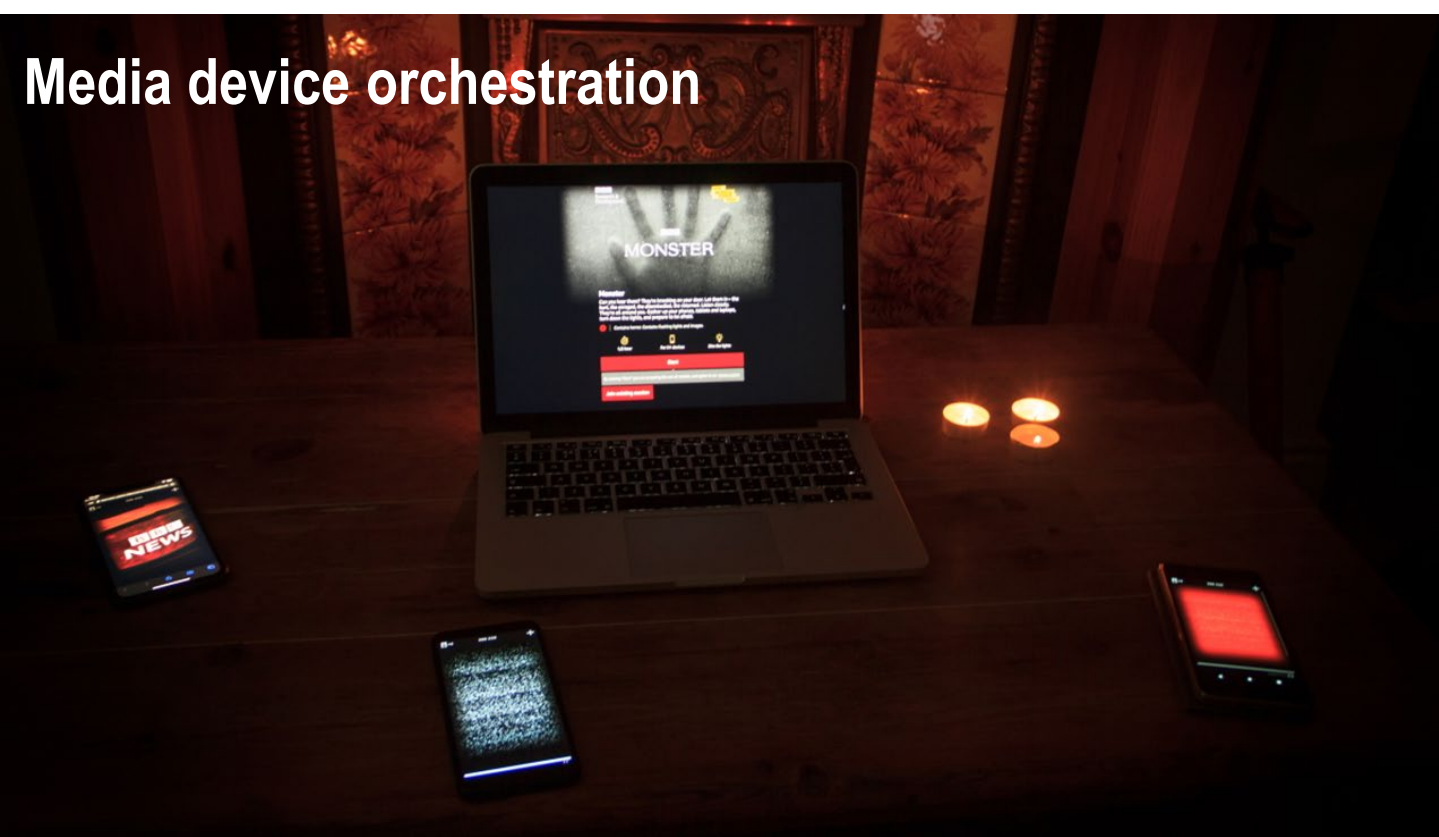
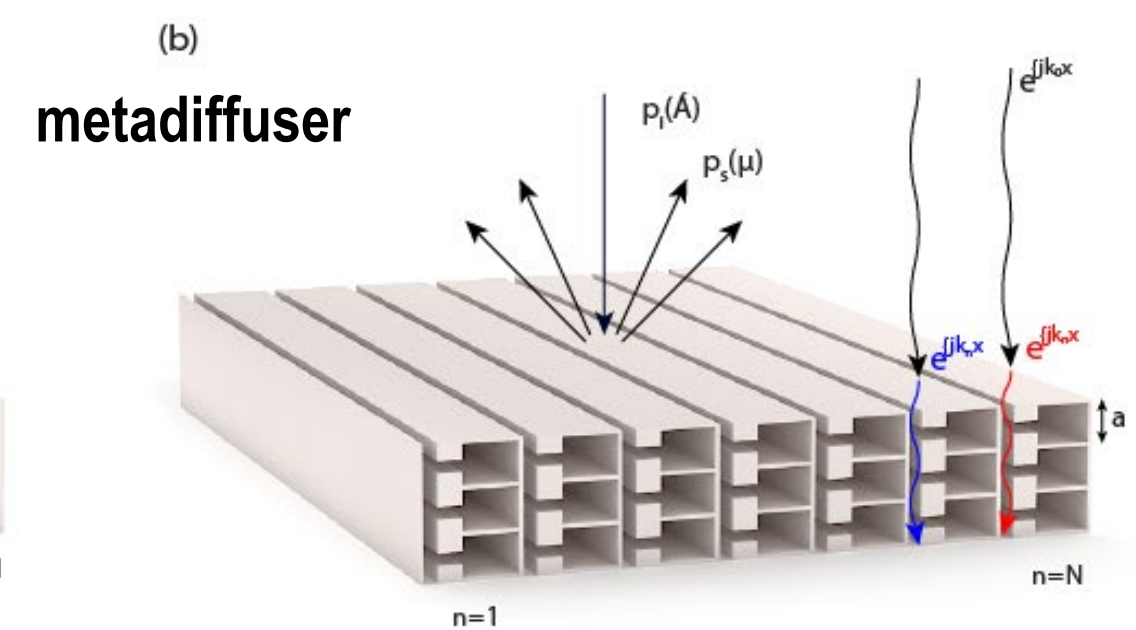
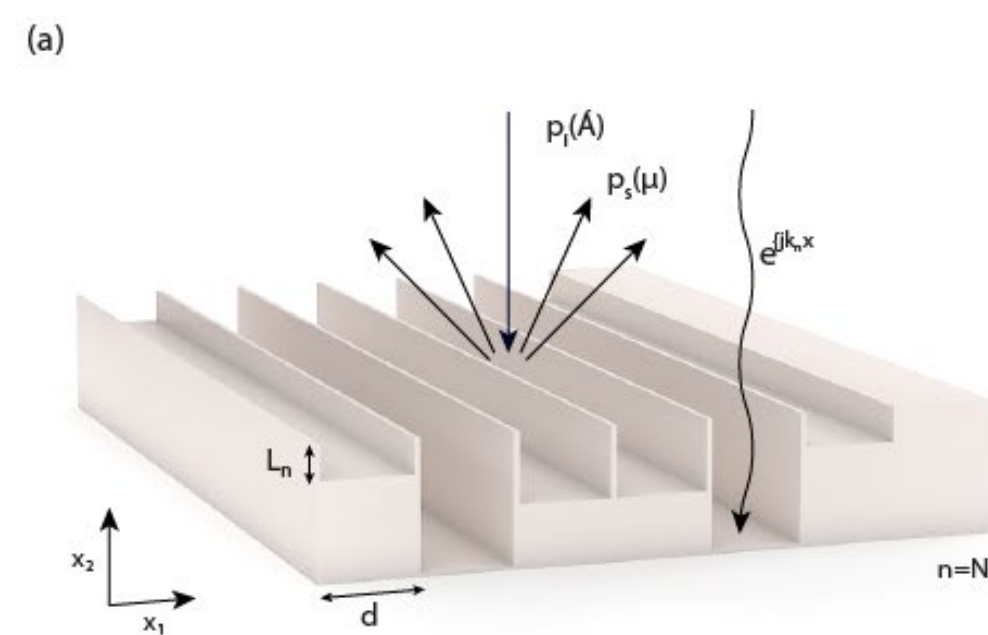
Emotion in Video Game Soundtracking

Springer



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@Trevor_Cox

- Audio
- Machine learning
- Modelling
- Public engagement
- Psychoacoustics



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Accessible & Personalised Audio

Ben Shirley



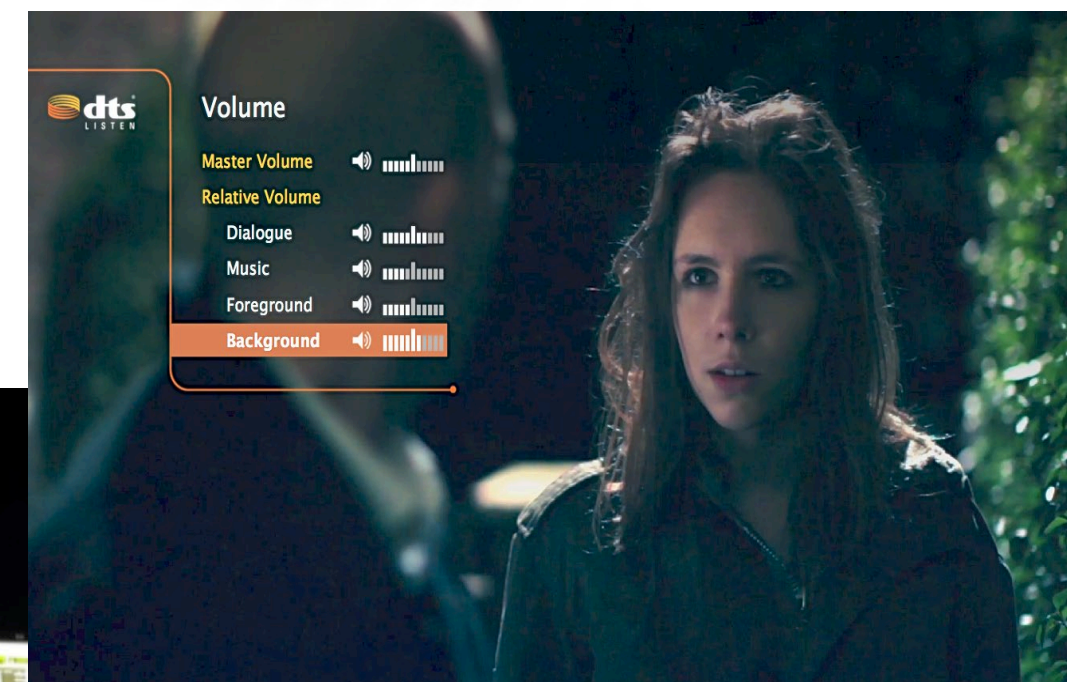
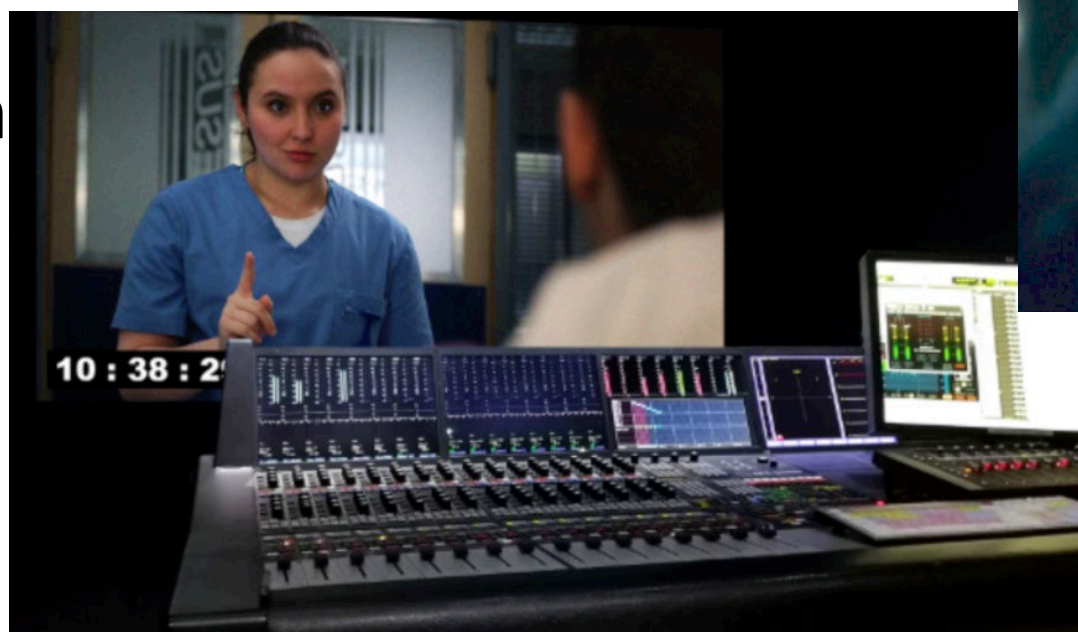
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Next-Generation audio formats and new web audio capabilities allow personalization of people's media experience.

How can this be used to increase:

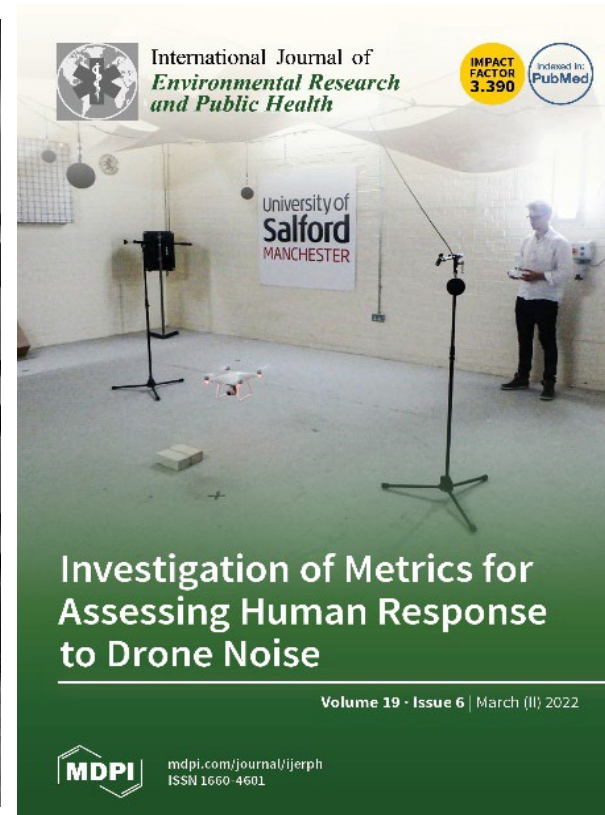
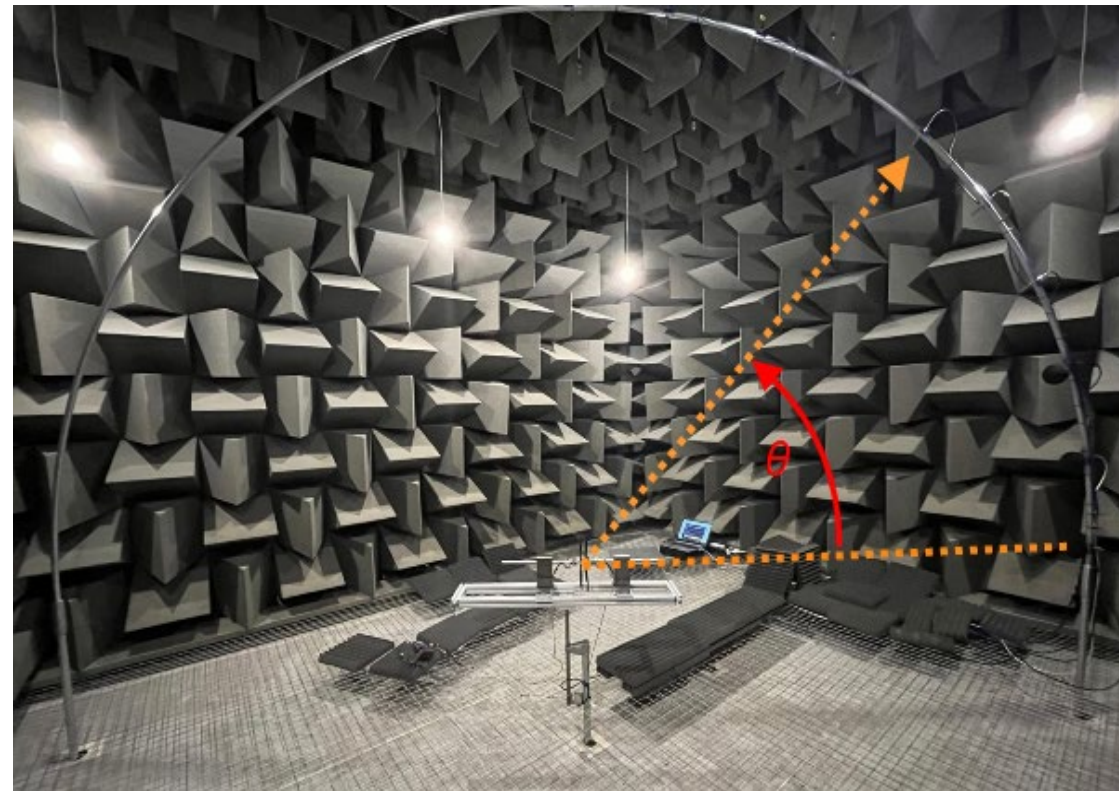
- Access
- Engagement
- Entertainment

for broadcast, VR, AR & XR experiences?



Perception-Driven Engineering – Novel Air Vehicles (Drones)

- DroneNoise project: <https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/V031848/1>
- InCEPTion: <https://www.futureflight.aero/news-article/2021-01-29/blue-bear-lead-uks-inception-electric-propulsion-project>



E-Mobility

- Safe and Sound project: <https://www.salford.ac.uk/news/new-funding-backs-progress-towards-universal-sound-e-scooters-part-safe-and-sound-project>



Novel approaches for Environmental Noise

- KTP: Intelligent Sound Level Meter



@ajtorija

- Environmental Acoustics
- Aircraft Noise / Drone Noise
- eMobility Noise
- Noise Modelling
- Psychoacoustics



Next steps: MSCA Fellowship

- www.acoustics.salford.ac.uk
- Contact staff you want to collaborate with.
 - Unsure who, email t.j.cox@salford.ac.uk
- 1st June 2022 complete Expression of Interest form
 - <https://hub.salford.ac.uk/sirc-acoustics/2021/06/04/postdoctoral-fellowship-expression-of-interest-in-acoustics/>
- If you're selected
 - 14th September 2022 submission deadline for bid to Horizon Europe
 - We'll help with making this the best possible bid

MSCA Postdoctoral Fellowships

- Are aimed at individual fellows who already have a doctoral degree and wish to enhance the creative and innovative potential of researchers holding a PhD, wishing to acquire new skills through further research.
- Postdoctoral Fellowships can either take place in Europe or in a Third Country not associated to Horizon Europe (Global Postdoctoral Fellowship).
- The Fellowships last for 12-24 months (with additional mandatory return phase for Global Fellowships).
- **The Call: MSCA Postdoctoral Fellowships 2022 (HORIZON-MSCA-2022-PF-01)**
- Planned opening date: 12 May 2022
- Deadline for Submission: 14 Sep 2022

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-msca-2022-pf-01-01>

MSCA Postdoctoral Fellowships

- European Postdoctoral Fellowships are open to researchers of any nationality who wish to engage in R&I projects by either coming to Europe from any country in the world or moving within Europe. **The standard duration of these fellowships must be between 12 and 24 months.**
- Global Postdoctoral Fellowships are open to European nationals or long-term residents who wish to engage in R&I projects with organisations outside EU Member States and Horizon Europe Associated Countries. These fellowships require an outgoing phase of minimum 12 and maximum 24 months in a non-associated Third Country, and a mandatory 12-month return phase to a host organisation based in an EU Member State or a Horizon Europe Associated Country.

MSCA Postdoctoral Fellowships

Important aspects to consider for the proposal:

- **Secondments** - up to a 1/3 of the duration of the fellowship in any country worldwide. The secondment phase can be a single period or be divided into shorter mobility periods; (excluding from the duration any additional period for a non-academic placement) and should be in line with the project objectives, adding significant value and impact to the fellowship.
- **Placements in non-academic sector** - up to six additional months to support researchers seeking a placement at the end of the project to work on R&I projects in an organisation from the non-academic sector (an EU Member State or Horizon Europe Associated Country); we **must have letter of support**.
- **Training** - should include key transferable skills; foster innovation and entrepreneurship, (e.g. commercialisation of results, IPR, communication, public engagement and citizen science) and promote Open Science practices.
- **Career development plan** - should be established jointly by the supervisor(s) and the researcher. In addition to research objectives, this plan should comprise the researcher's training and career needs (e.g. transferable skills, teaching, planning for publications and participation in conferences and events aiming at opening science and research to citizens.) - output included in the WP.

MSCA Postdoctoral Fellowships

Eligible candidates:

- must be postdoctoral researchers at the date of the call deadline. Applicants who have successfully defended their doctoral thesis but who have not yet formally been awarded the doctoral degree will also be considered as postdoctoral researchers and will be considered eligible to apply.
- must have a maximum of 8 years full-time equivalent experience in research, measured from the date of award of the doctoral degree. Years of experience outside research and career breaks (e.g. due to parental leave), will not count towards the amount of research experience.
- For nationals or long-term residents of EU Member States or Horizon Europe Associated Countries who wish to reintegrate to pursue their research career in EU Member States or Horizon Europe Associated Countries, years of experience in research in third countries will not be considered in the above maximum.
- must not have resided or carried out their main activity (work, studies, etc.) in the country of the beneficiary (for European Postdoctoral Fellowships), or the host organisation for the outgoing phase (for Global Postdoctoral Fellowships) for more than 12 months in the 36 months immediately before the call deadline. Researchers wishing to reintegrate from a third country must either be based in a third country at the call deadline, or have moved directly from a third country to an EU Member State or Horizon Europe Associated Country within the last 12 months before the call deadline.

MSCA Postdoctoral Fellowships

Funding available – 219M for the European Fellowships call (approx. 900 projects to be funded); 39M Euros for the Global Fellowships

the budget is formulaic, allowing a monthly allowance for:

- a living allowance (paid as salary, set at 5080 Euros)
- a mobility allowance (paid as salary, set at 600 Euros)
- if applicable, family, long-term leave and special needs allowances (set at 660 Euros)
- research, training and networking activities (directly incurred research costs, set at 1000 Euros)
- management and indirect costs (this goes towards the PI's time and institutional overheads), set at 650 Euros

Total grant value per Fellowship: approx. €220,000 - €295,000 (depending on length of the project / allowances)

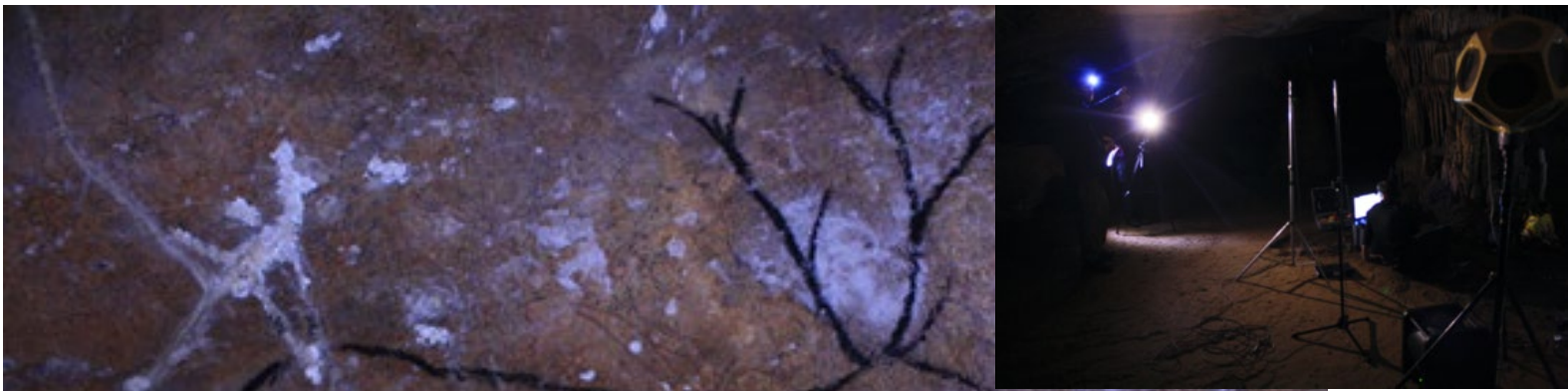
Matchmaking Resources for the 2022 Marie Skłodowska-Curie Actions Postdoctoral Fellowship Call

Supervisors and postdoctoral fellows who are interested in applying to the [2022 Marie Skłodowska-Curie Actions \(MSCA\) Postdoctoral Fellowship \(PF\) Call](#) can use the following resources to find partners for a joint application:

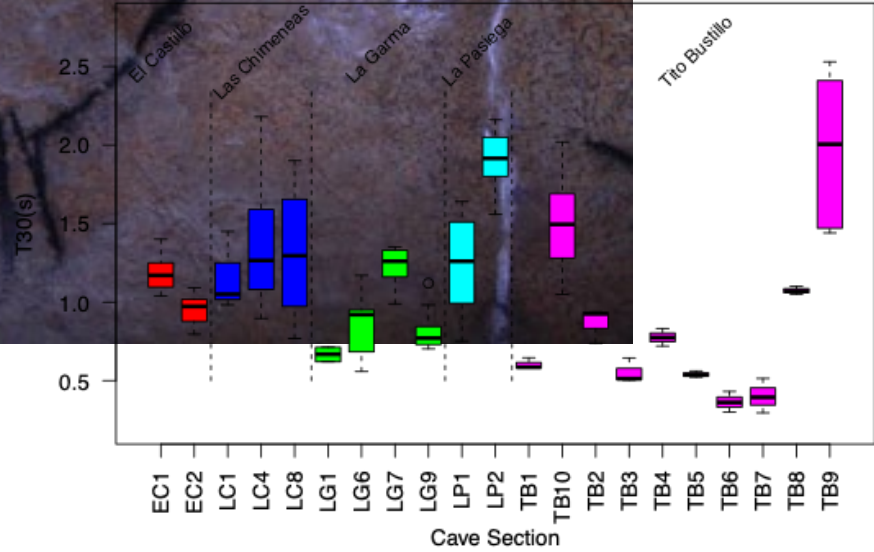
- MSCA are inviting universities, research institutions and businesses who are interested in hosting postdoctoral researchers under the 2022 MSCA PF call to publish their hosting offers (Expressions of Interest) on the [EURAXESS platform](#).
- In the framework of the MSCA-NET project, MSCA National Contact Points (NCPs) have set up the [MSCA Matchmaking Platform](#). Interested postdoctoral researchers and supervisors can publish their research profile and interests, their expression of interest and hosting offers, and also book meetings with each other.
- The [2022 MSCA PF call webpage](#) also includes the "Partner search announcements", which allows universities, research institutions and businesses to publish their hosting offers for postdoctoral fellows under the 2022 MSCA PF Call.
- Recently delivered webinars' recording is also available from UKRO – please let me know if you'd like more information (v.barron1@salford.ac.uk).

Other fellowship schemes

- EPSRC, www.ukri.org/opportunity/epsrc-open-fellowship/
- RAEng, www.raeng.org.uk/grants-prizes/grants/support-for-research/raeng-research-fellowship
- IC via RAEng, www.raeng.org.uk/grants-prizes/grants/support-for-research/ic-postdoctoral
- AHRC, www.ukri.org/opportunity/ahrc-research-development-and-engagement-fellowships-standard-route-to-support-mid-career-and-established-researchers/



Archaeoacoustics

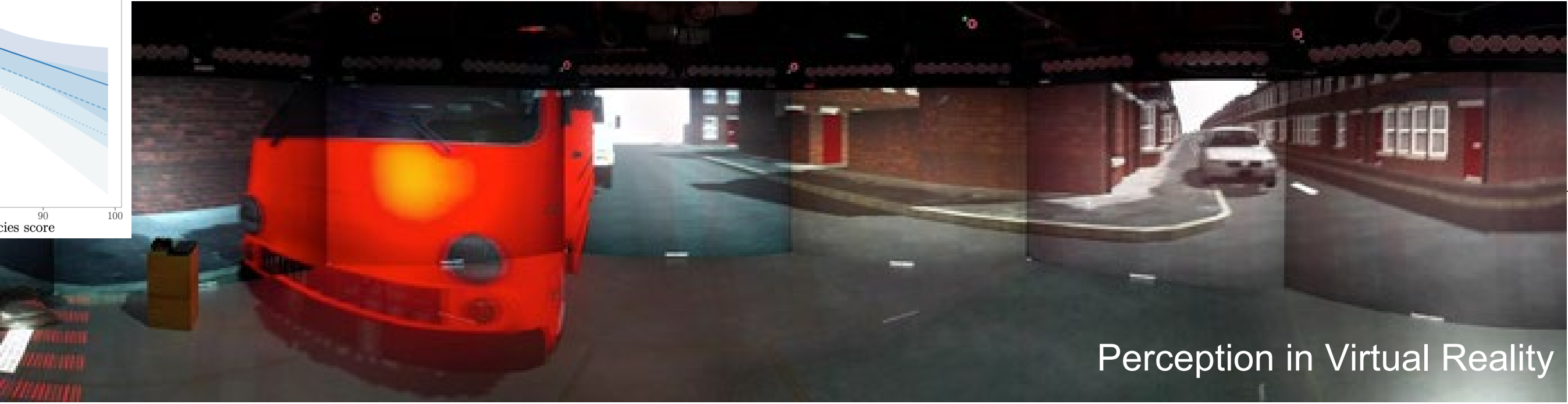
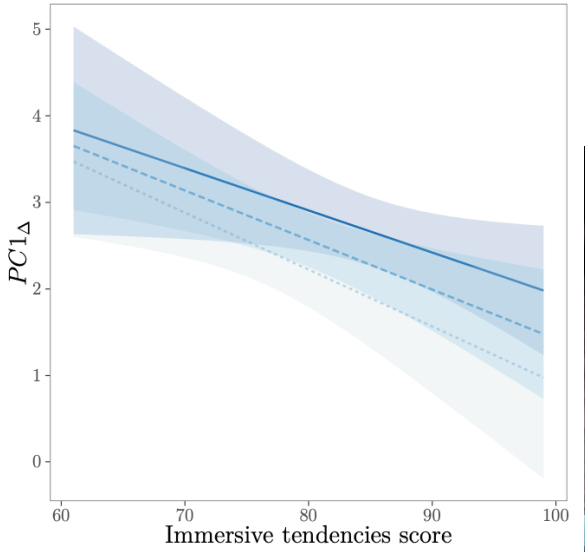
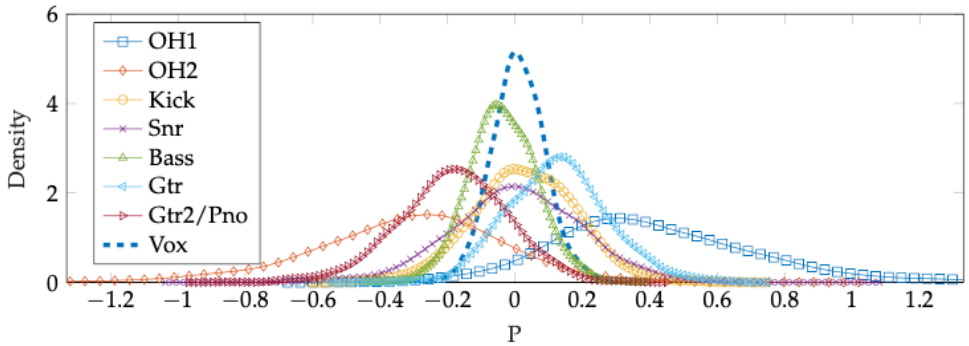


Room Acoustics & Psychoacoustics

Bruno Fazenda @bfazenda b.m.fazenda@salford.ac.uk



Psychoacoustics
Sound Quality



Perception in Virtual Reality

