Michael Lotinga

BSc(hons) MSc CEng MIOA MASA

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Academic qualifications

2012 – 2014 — University of Salford
MSc Environmental Acoustics
Distinction

2007 – 2008 — Institute of Acoustics
Diploma Acoustics and Noise Control
Merit, awarded special commendation

2002 – 2005 — Anglia Ruskin University
BSc Audio and Music Technology
Upper second-class with honours

Institutional memberships

2018-ongoing — Member of the Acoustical Society of America

2017-ongoing — Chartered Engineer

2016-ongoing — Associate of the Institute of Noise Control Engineering

2009-ongoing — Member of the Institute of Acoustics

Industry roles

2021 – ongoing — ANC Soundscape Working Group

2018 – ongoing — IOA Engineering Division Committee member

2014 – ongoing — IOA Publications Committee member

2012 – 2014 — IOA North-west Branch Committee Secretary (elected 2013) & Young Members Representative / Young Members Committee North-west Branch Representative

2011 – 2012 — IOA Central Branch Committee Young Members Representative / Young Members Committee Central Branch Representative

2010 – 2022 — STEM Learning – STEM Ambassador

Research experience

2021-2023 — WSP | Department for Business, Energy & Industrial Strategy
Scoping Review of Noise Guidance for Onshore Wind Turbines
Project manager and research lead (contractor) for a review of the technical guidance on noise assessment of onshore wind energy developments in the UK.

2017-2018 — WSP | National Grid
Identification of Novel Noise Reduction measures for Transformers
Research lead (contractor) for a review of innovative noise control applications for electrical power transformers, aimed at identifying new and cost-effective means of managing low frequency tonal noise.

2015-2016 — WSP | Department of Energy & Climate Change
Review of the evidence on the response to amplitude modulation from wind turbines
Deputy research lead (contractor) for review and analysis of the human response to amplitude modulation in wind turbine sound exposure, to inform development of a national planning control.
https://www.gov.uk/government/publications/review-of-the-evidence-on-the-response-to-amplitude-modulation-from-wind-turbines

2013-2014 — *Investigating the accuracy of a semi-empirical model for rail-induced ground/structure-borne noise and vibration*
Master's degree project undertaken with industrial partner to evaluate a railway vibration model and compare with alternative computational models.
https://www.researchgate.net/publication/324091596_Investigating_the_accuracy_of_a_semi-empirical_model_for_rail-induced_groundstructure-borne_noise_and_vibration

Professional experience

2015 – ongoing — WSP
Associate (3 yrs) / Principal (4 yrs) Engineer, Acoustics, Noise and Vibration
Management and delivery of environmental noise and vibration studies on national and global infrastructure, transport and industrial projects; advising government bodies on noise issues; research for commercial and in-house development projects; software development; multidisciplinary teamworking; line management; delivery of team training.

2014 – 2015 — Dyson
Noise and Vibration Engineer
New product research and development; laboratory testing; signal analysis; rapid prototyping and developing optimal engineering solutions to design problems; collaborating with multiple engineering groups to achieve performance targets and deliver new consumer technologies to the market.

2013 — WSP
Student Intern Acoustics Consultant (3-month work placement)
Management for noise and vibration EIA projects; preparing detailed ES noise/vibration assessment report chapters; providing technical support and training for colleagues; collaborative working on railway vibration predictive modelling research project.

2006 – 2012 — Cass Allen Associates
Senior Acoustics Consultant (3 yrs) / Consultant (3 yrs)
Management of projects; measuring and analysing noise and vibration; provision of mitigation advice; assisting with company recruitment, managing and mentoring junior staff; maintaining and developing technical tools, databases and procedures.

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Publications

WSP, 2023. *Scoping review of noise guidance for onshore wind turbines*. Department for Business, Energy & Industrial Strategy. [Publication pending]

Lotinga, MJB & Lewis, T, 2021. *Subjective responses to wind turbine noise amplitude modulation: pooled analysis of laboratory listening studies and synthesis of an AM character rating penalty*. Wind Turbine Noise, Remote from Europe, 18-21 May 2021. INCE-Europe.

Lotinga, MJB, Saunders, B & Sica, G, 2021. Predicting sound levels generated by jet fan ventilation systems in tunnels. *High Speed Two (HS2): Infrastructure Design and Construction (Volume 1)*. DOI: 10.1680/hs2.65765.261. Institution of Civil Engineers

Lotinga, MJB, Lewis, T & Taylor, T, 2019. *Music venue noise : a development planning case-study examining the application of the 'Agent of Change' principle, a novel legal mechanism, and noise control design issues*. Inter-noise 2019, 16-19 June, Madrid.

WSP, 2018. *Appraisal of Sustainability for the proposed Airports National Policy Statement* (authored noise sections of Main Report, Health Impact Analysis, Appendix A-2: Quality of Life, and Appendix A-4: Noise). Department for Transport.

Lotinga, MJB & Perkins, RA, 2017. *A method to control amplitude modulation in wind turbine noise within the UK planning regime*. International Congress on Sound and Vibration (ICSV24), London, 23-27 July 2017. International Institute of Acoustics and Vibration.

Lotinga, MJB, Perkins RA et al, 2017. *A review of the human exposure-response to amplitude-modulated wind turbine noise: health effects, influences on community annoyance, methods of control and mitigation*. ICBEN 2017, 19-22 June, Zurich.

WSP, 2017. *Appraisal of Sustainability: revised draft Airports National Policy Statement* (authored noise sections of Main Report, Health Impact Analysis, Appendix A-2: Quality of Life, and Appendix A-4: Noise). Department for Transport.

McKenzie, A, Cand, M, Bowdler, D, Jiggins, M, Irvine, G, Reid, M, Perkins, R, Lotinga, M, Hayes, M & Bullmore, A, 2017. A planning condition for wind turbines. *Acoustics Bulletin* 42 (6), pp56-60. Institute of Acoustics.

Perkins, RA, Lotinga, MJ (co-lead) et al, 2017. *Development of an approach to controlling the impact of amplitude modulation in wind turbine noise- exposure-response research, application and implementation*. Wind Turbine Noise 2017, 2-5 May, Rotterdam.

Lotinga, MJ, Perkins RA & Lewis, T, 2017. Perception and control of amplitude modulation in wind turbine noise. *Acoustics Bulletin* 42(2), 41-48.

WSP | Parsons Brinckerhoff, 2017. *Appraisal of Sustainability: draft Airports National Policy Statement* (authored noise sections of Main Report, Health Impact Analysis, Appendix A-2: Quality of Life, and Appendix A-4: Noise). Department for Transport.

Perkins, RA, Lotinga, MJ (co-lead) et al, 2016. *A review of research into the human response to amplitude-modulated wind turbine noise and development of a planning control method*. Inter-noise 2016, 21-25 August, Hamburg.

WSP | Parsons Brinckerhoff, 2016. *Wind Turbine AM Review: Phase 2 Report*. Department of Energy & Climate Change / Department for Business, Energy & Industrial Strategy.