Michael Lotinga BSc(hons) MSc CEng MIOA MASA

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Academic qualifications		Research experience		
2012 - 2014	University of Salford MSc Environmental Acoustics	2023- ongoing	University of Salford (doctoral study): Reducing Environmental Footprint thought transformative Multi-scale Aviation Planning (REFMAP)	
2007 - 2008	Distinction Institute of Acoustics Diploma Acoustics and Noise Control Merit, awarded special		Doctoral research student developing psychoacoustic models for human response to sound from unmanned aircraft systems. Study component of project objective to deliver flight path route optimisation digital platform to manage impacts and enhance sustainability for conventional and emerging aviation technologies.	
	commendation		https://www.refmap.eu	
2002 - 2005	Anglia Ruskin University BSc Audio and Music Technology Upper second-class with honours	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.	
Institutional memberships			https://www.wsp.com/en-gb/insights/wind-turbine-noise-report	
2018- ongoing	Member of the Acoustical Society of America	2017- 2018	WSP National Grid: <i>Identification of Novel Noise Reduction measures for Transformers</i>	
2017- ongoing	Chartered Engineer		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.	
2016- ongoing	Associate of the Institute of Noise Control Engineering	2015- 2016	WSP Department of Energy & Climate Change: Review of the evidence on the response to amplitude modulation from wind turbines	
2009- ongoing	Member of the Institute of Acoustics		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.	
Industry roles			https://www.gov.uk/government/publications/review-of-the-evidence-on-the-response-to-amplitude-modulation-from-wind-turbines	
2021 – ongoing	ANC Soundscape Working Group	2013- 2014	Investigating the accuracy of a semi-empirical model for rail-induced ground/structure-borne noise and vibration	
2018 – ongoing	IOA Engineering Division Committee member		Master's degree project undertaken with industrial partner to evaluate a railway vibration model and compare with alternative computational models.	
2014 - 2023	IOA Publications Committee member		https://www.researchgate.net/publication/324091596	
2012 -	IOA North-west Branch	Professi	rofessional experience	
2014	Committee Secretary (elected 2013) & Young Members Representative / Young Members Committee Northwest Branch Representative	2023	WSP: Associate (4 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.	
2011 - 2012	IOA Central Branch Committee Young Members Representative / Young Members Committee			
	Central Branch Representative	2014 -	Dyson: Noise and Vibration Engineer	
2010 - 2022	STEM Learning – STEM 2015 Ambassador	New product research and development; laboratory testing; signal analysis; rapid prototyping and developing optimal engineering solutions to design problems; multidisciplinary collaboration to achieve engineering performance targets and deliver new consumer technologies to the market.		
		2006 -	Cass Allen Associates: Senior Acoustics Consultant (3 yrs) / Consultant (3 yrs)	
		2012	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

Lotinga, MJB, Ramos-Romero, C, Green, N & Torija, AJ, 2023. <u>Noise from unconventional aircraft: A review of current measurement techniques</u>, psychoacoustics, metrics and regulation. *Current Pollution Reports*, 9(4), 1-22.

Lotinga, MJB, Lewis, T, Powlson, J & Berry, B, 2023. <u>Onshore wind turbine noise: A review of the current guidance framework for the UK Government (Part 2: Conclusions and recommendations)</u>. *Acoustics Bulletin*, 49(6), 26-38.

WSP, 2023. <u>A review of noise guidance for onshore wind turbines</u>. Project report 70081416-001-03-05. Department for Business, Energy & Industrial Strategy. DOI: 10.13140/RG.2.2.13483.92961/2.

Lotinga, MJB, Lewis, T, Powlson, J & Berry, B, 2023. <u>Onshore wind turbine noise: A review of the current guidance framework for the UK Government (Part 1: Introductory project overview)</u>. *Acoustics Bulletin*, 49(5), 26-32.

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

Lotinga, MJB, Saunders, B & Sica, G, 2021. <u>Predicting sound levels generated by jet fan ventilation systems in tunnels</u>. *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. <u>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</u>. Inter-noise 2019, 16-19 June, Madrid.

WSP, 2018. <u>Appraisal of Sustainability for the proposed Airports National Policy Statement</u> (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. <u>A method to control amplitude modulation in wind turbine noise within the UK planning regime</u>. 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. <u>A review of the human exposure-response to amplitude-modulated wind turbine noise: Health effects, influences on community annoyance, methods of control and mitigation</u>. ICBEN 2017, 19-22 June, Zurich.

WSP, 2017. <u>Appraisal of Sustainability: Revised draft Airports National Policy Statement</u> (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. <u>A planning condition for wind turbines</u>. *Acoustics Bulletin* 42 (6), pp56-60. Institute of Acoustics.

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

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

WSP | Parsons Brinckerhoff, 2017. <u>Appraisal of Sustainability: Draft Airports National Policy Statement</u> (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. <u>A review of research into the human response to amplitude-modulated wind turbine noise and development of a planning control method</u>. Inter-noise 2016, 21-25 August, Hamburg.

WSP | Parsons Brinckerhoff, 2016. *Wind Turbine AM Review: Phase 2 Report*. Report 3514482A-2-3. Department of Energy & Climate Change / Department for Business, Energy & Industrial Strategy.