

	Research Associate Speech and Audio Processing Group , EEE Dept., Imperial College London, UK. European Commission Future and Emerging Technologies (FET) FP7 project: Self-Configuring ENvironment-aware Intelligent aCoustic sensing (SCENIC).	02/2010 – 10/2011
	Teaching Assistant, Imperial College London Real-Time DSP. MSc and MEng (part IV). Digital Signal Processing. BEng/MEng (part III). Digital Electronics. BEng/MEng (part I).	04/2007 – 10/2011
	Pre-University & Vacation Trainee BBC Research and Development Department.	09/2001 – 09/2006
Education	Ph.D (supervisor Dr. Patrick A. Naylor) EEE Dept., Imperial College London, UK. Thesis: “Glottal-Synchronous Speech Processing” .	10/2006 – 03/2010
	MEng in Electrical and Electronic Engineering (1 st Class Hons.) EEE Dept., Imperial College London, UK. Significant courses: Digital Signal Processing, Speech Processing, Communications, Digital System Design. Significant coursework: iECG Portable 12-channel ECG device . Thesis (supervisor Dr. Patrick A. Naylor): “A Novel Loudspeaker Equalizer” .	09/2002 – 09/2006
Other Skills	Spoken Languages: English (native), French (advanced), German (beginner), Slovak (beginner), Hungarian (beginner). Programming: MATLAB, C/C++, Python, Java, Pascal, HTML, PHP/MySQL, L ^A T _E X, Assembler, Unix shells, OpenGL. ME: CAD (SolidWorks, Fusion 360), CNC+manual milling and turning, MIG/TIG/arc welding, fine woodworking, 3D printing. EE: CAD (Altium+Xilinx VHDL, Eagle), SM soldering. Pianoforte: Grade 7 (Hons.). Music Production: Aurora Paradigm Other: Winter sports, calisthenics, latte art.	07/1999

Products and Projects

Dolby Atmos FlexConnect : Acoustic Mapping.	2023
Microsoft Windows 10 : Support for generic microphone array geometry.	2015
Microsoft HoloLens : Voice and spatial audio capture, rendering engine.	2015
Cities Unlocked : Spatial audio rendering engine.	2014
Microsoft Surface Pro 3 : Microphone array acoustic design.	2014
Kinect for Xbox One : Microphone array acoustic design.	2014

Awards and Honors

Royal Academy of Engineering International Travel Grant.	07/2009
IDEA League Grant for Research Collaboration.	11/2008
UK Engineering and Physical Sciences Research Council (EPSRC) Doctoral Training Award.	10/2006 – 04/2010
Schlumberger MEng Group Project Prize.	06/2005
BBC R&D University Sponsorship.	09/2002 – 06/2006

Innovation Award, Surrey SATRO Festival of Engineering & Science. 07/1999

Invited Talks ["Immersive for Consumer: 'After the Decode'"](#), Silicon Valley Video Summit 02/2024
Bay Area Innov. Signal Hackers (BISH) Bash: Higher Order Soundfield Capture 07/2023
Marie-Curie Seasonal School on Distributed Signal Processing and Optimization for Service-Oriented, Ubiquitous, Network-Driven Sound (SOUNDS): Amplitude Panning and Bass Management 09/2022
Guest Speaker, Real Industry: Inside the Music & Video Technology Industry 01/2019
Practical Open-Concentric Spherical Microphone Array Design
ASA Fall 2018 Annual Meeting 11/2018
[Acoustic Channel Equalization for Speech Dereverberation](#)
CCRMA Research Colloquium, Stanford University, USA 02/2016
[Application of Measured Directivity Patterns to Acoustic Array Processing](#)
AES UK Monthly Lecture, Imperial College London, UK 05/2014
[Microphone Array Signal Processing: Beyond the Beamformer](#)
Candidate Talk, Microsoft Research, Redmond, USA 08/2011
Voice Source Estimation for Artificial Bandwidth Extension of Telephone Speech
IND Annual Research Colloquium, RWTH Aachen, Germany 07/2009

Professional Memberships

Senior Member, Institute of Electrical & Electronics Engineers. Since 09/2006
Member, Audio Engineering Society. Since 10/2013
Member, Acoustical Society of America. Since 10/2013

Committees, Collaborations

Editor, IEEE Industry Signals Newsletter 10/2025 – present
Track Chair, Spatial Audio Capture & Reproduction, ICASSP 2019 – present
Finance Chair, [WASPAA 2019](#) 10/2019
Principal Investigator, [Spatial Sound Control for Testing Multi-channel Audio Devices, Dolby/ANU ARC Linkage Project LP160100379](#) 08/2019 – 9/2021
Member, [IEEE Audio and Acoustics Technical Committee](#) 11/2017 – 12/2023
Finance Chair, [HSCMA 2017](#) 03/2017
Events and Technical Officer, Imperial College Choir 09/2003 – 08/2006

Peer Review

IEEE Transactions on Audio, Speech and Language Processing, IEEE Journal on Selected Topics in Signal Processing, IEEE Signal Processing Letters, Speech Communication, IEEE International Conference on Audio, Speech, and Signal Processing (ICASSP), IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA), IEEE Wireless Communications and Networking Conference (WCNC), IEEE Conference on Sensor Signal Processing for Defense (SSPD), IEEE Global Conference on Signal and Information Processing (GlobalSIP), European Signal Processing Conference (EUSIPCO), International Conference on Information, Communications and Signal Processing (ICIS), International Workshop on Acoustic Signal Enhancement (IWAENC), Hands-free Speech Communication and Microphone Arrays (HSCMA).

Student Supervision

J-H. Hanschke, ["Sound Field Analysis using a Novel Multi-Radius Microphone Array,"](#) Dolby Laboratories / TU Berlin Master's Thesis, Grade 1.0, Jan. 2019.

Journal Publications

F. Antonacci, J. Filos, M. R. P. Thomas, E. A. P. Habets, A. Sarti, P. A. Naylor and S. Tubaro, ["Inference of Room Geometry from Acoustic Impulse Responses,"](#) in *IEEE Trans. Audio, Speech, Lang. Process.*, vol. 20, no. 10, pp. 2683–2695, Dec. 2012.

D. P. Jarrett, E. A. P. Habets, M. R. P. Thomas and P. A. Naylor, ["Rigid Sphere Room Impulse Response Simulation: Algorithm and Applications,"](#) in *J. Acoust Soc. Am.*, vol. 132, no. 3, pp. 1462–1472, Sep. 2012.

T. Drugman, M. R. P. Thomas, J. Gudnason, T. Dutoit and P. A. Naylor, ["Detection of Glottal Closing instants from Voiced Speech: A Quantitative Review,"](#) in *IEEE Trans. Audio, Speech, Lang. Process.*, vol. 20, no. 3, pp. 994–1006, Mar. 2012.

M. R. P. Thomas, J. Gudnason and P. A. Naylor, ["Estimation of Glottal Closing and Opening Instants in Voiced Speech using the YAGA Algorithm,"](#) in *IEEE Trans. Audio, Speech, Lang. Process.*, vol. 20, no. 1, pp. 82–91, Jan. 2012

J. Gudnason, M. R. P. Thomas, D. P. W. Ellis and P. A. Naylor, ["Data-Driven Voice Source Waveform Analysis and Synthesis,"](#) in *Speech Communication*, vol. 54, no. 2, pp. 199–211, Feb. 2011.

M. R. P. Thomas and P. A. Naylor. ["The SIGMA Algorithm: A Glottal Activity Detector for Electrolaryngographic Signals,"](#) *IEEE Trans. Audio, Speech, Lang. Process.* vol. 17, no. 8 pp. 1557–1566, Nov. 2009.

Conference Publications

S. Koyama, E. de Sena, P. Samarasinghe, M. R. P. Thomas and F Antonacci, ["Past, Present, and Future of Spatial Audio and Room Acoustics",](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Apr. 2025.

S. S. Kushwaha, J. Ma, M. R. P. Thomas and Y. Tian and A. Bruni, ["Diff-SAGE: End-to-End Spatial Audio Generation Using Diffusion Models",](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Apr. 2025.

J. G. Stoddard and D. McGrath and M. R. P. Thomas, ["Robust Bayesian Estimation for Spherical Functions",](#) in *Proc. AES Intl. Conf. on Audio for Virtual and Augmented Reality*, Redmond, WA, USA, Mar. 2024

J-H. Hanschke, D. Arteaga, G. Cengarle, J. B. Lando, M. R. P. Thomas and A. J. Seefeldt, ["Improved Panning on Non-Equidistant Loudspeakers with Direct Sound Level Compensation",](#) in *Proc. Audio Engineering Soc. Conv*, New York, USA, Oct. 2023.

M. R. P. Thomas and J-H. Hanschke, ["Inverted Cardioid Topology for Multi-Radius Spherical Microphone Arrays,"](#) in *Proc. Workshop on App. of Signal Processing to Audio and Acoustics (WASPAA)*, New Paltz, New York, Oct. 2023.

N. Akbar, G. N. Dickins, M. R. P. Thomas, P. Samarasinghe, T. Abhayapala, ["Reducing Modal Error Propagation through Correcting Mismatched Microphone Gains Using Rapid,"](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Jun. 2021.

- N. Akbar, G. N. Dickins, M. R. P. Thomas, [A Practical Approach for Microphone Array Calibration in Augmented and Virtual Reality Applications,](#) in *Proc. International Conf. on 3D Immersion (IC3D)*, Dec. 2020.
- N. Akbar, G. N. Dickins, M. R. P. Thomas, P. Samarasinghe, T. Abhayapala, [A Novel Method for Obtaining Diffuse Field Measurements for Microphone Calibration,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Barcelona, Spain, May 2020.
- M. R. P. Thomas, [Practical Concentric Open Sphere Cardioid Microphone Array Design for Higher Order Sound Field Capture,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Brighton, UK, May 2019.
- M. R. P. Thomas and C. Q. Robinson, "Amplitude Panning and the Interior Pan" in *Proc. Tonmeistertagung 30*, Cologne, Germany, November 2018.
- M. R. P. Thomas, [Practical Open-Concentric Spherical Microphone Array Design,](#) in *J. Acoust. Soc. Am.*, September 2018.
- M. R. P. Thomas and C. Q. Robinson, [Amplitude Panning and the Interior Pan](#) in *Proc. Audio Engineering Soc. Conv*, New York, USA, October 2017.
- M. R. P. Thomas, [Fast Computation of Cubature Formulae for the Sphere,](#) in *Proc. Workshop on Hands-Free Speech Communication and Microphone Arrays (HSCMA)*, San Francisco, CA, USA, March 2017.
- H. Gamper, M. R. P. Thomas, L. Corbin and I. J. Tashev, [Synthesis of Device-Independent Noise Corpora for Realistic ASR Evaluation,](#) in *Proc. Interspeech Conf.*, San Francisco, CA, Sep. 2016.
- M. R. P. Thomas, H. Gamper and I. J. Tashev, [BFGUI: An Interactive Tool for the Synthesis and Analysis of Microphone Array Beamformers,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Shanghai, China, Mar. 2016.
- A. Politis, M. R. P. Thomas, H. Gamper and I. J. Tashev, [Application of 3D Spherical Transforms To Personalization Of Head-Related Transfer Functions,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Shanghai, China, Mar. 2016.
- H. Gamper, M. R. P. Thomas and I. J. Tashev [Anthropometric Parameterisation of a Spherical Scatterer ITD Model with Arbitrary Ear Angles,](#) in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2015.
- F. Lim, M. R. P. Thomas, P. A. Naylor and I. J. Tashev [Acoustic Blur Kernel with Sliding Window for Blind Estimation of Reverberation Time,](#) in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2015.
- M. R. P. Thomas, H. Gamper and I. J. Tashev, [Dereverberation Sweet Spot Dilation with Combined Channel Equalization and Beamforming,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Brisbane, Australia, Apr. 2015.
- H. Gamper, M. R. P. Thomas and I. J. Tashev, [Estimation of Multipath Propagation Delays and Interaural Time Differences from 3-D Head Scans,](#) in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Brisbane, Australia, Apr. 2015.

- F. Lim, M. R. P. Thomas and I. J. Tashev, "[Blur Kernel Estimation Approach to Blind Reverberation Time Estimation](#)," in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Brisbane, Australia, Apr. 2015.
- M. R. P. Thomas, F. Lim, I. J. Tashev and P. A. Naylor, "[Optimal Beamforming as a Time Domain Equalization Problem with Applications to Room Acoustics](#)," in *Proc. Intl. Workshop Acoust. Signal Enhancement (IWAENC)*, Juan Les Pins, France, Sep. 2014.
- M. R. P. Thomas, J. Ahrens and I. J. Tashev, "[A Method for Converting Between Cylindrical and Spherical Representations of Sound Fields](#)," in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Florence, Italy, May 2014.
- P. Bilinski, J. Ahrens, M. R. P. Thomas, I. J. Tashev and J. C. Platt, "[HRTF Magnitude Synthesis via Sparse Representation of Anthropometric Features](#)," in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Florence, Italy, May 2014.
- F. Lim, M. R. P. Thomas and P. A. Naylor, "[MINTFormer: A Spatially Aware Channel Equalizer](#)," in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2013.
- J. Ahrens, M. R. P. Thomas and I. J. Tashev, "[Efficient Implementation of the Spectral Division Method for Arbitrary Virtual Sound Fields](#)," in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2013.
- J. Ahrens, M. R. P. Thomas and I. J. Tashev, "[Gentle Acoustic Crosstalk Cancellation Using the Spectral Division Method and Ambiphonics](#)," in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2013.
- J. Ahrens, M. R. P. Thomas and I. J. Tashev, "[HRTF Magnitude Modeling Using a Non-Regularized Least-Squares Fit of Spherical Harmonics Coefficients on Incomplete Data](#)," in *Proc. APSIPA Annual Summit and Conf.*, Hollywood, CA, USA, Dec. 2012.
- M. R. P. Thomas, J. Ahrens and I. J. Tashev, "[Beamformer Design Using Measured Microphone Directivity Patterns](#)," in *Proc. APSIPA Annual Summit and Conf.*, Hollywood, CA, USA, Dec. 2012.
- M. R. P. Thomas, J. Ahrens and I. J. Tashev, "[Optimal 3D Beamforming Using Measured Microphone Directivity Patterns](#)," in *Proc. Intl. Workshop Acoust. Signal Enhancement (IWAENC)*, Aachen, Germany, Sep. 2012.
- M. R. P. Thomas, N. D. Gaubitch, E. A. P. Habets and P. A. Naylor, "[An Insight into Common Filtering in Noisy SIMO Blind System Identification](#)," in *Proc. International Conf. Acoustics, Speech, and Signal Process. (ICASSP)*, Kyoto, Japan, Mar. 2012.
- A. Sarti, W. Kellermann, R. Rabenstein, P. A. Naylor, M. Omologo, P. Svaizer, F. Antonacci, P. Annibale, P. Bestagini, A. Canclini, D. Markovic, K. Kowalczyk, M. R. P. Thomas and A. Brutti, "[The SCENIC Project: Space-Time Audio Processing for Environment-Aware Acoustic Sensing and Rendering](#)," in *Proc. AES 131st Convention*, New York, Oct. 2011.

- M. R. P. Thomas, N. D. Gaubitch and P. A. Naylor, "[Application of Channel Shortening to Acoustic Channel Equalization in the Presence of Noise and Estimation Error](#)," in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2011.
- A. Canclini, F. Antonacci, M. R. P. Thomas, J. Filos, A. Sarti, P. A. Naylor and S. Tubaro, "[Exact Localization of Acoustic Reflectors from Quadratic Constraints](#)," in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2011.
- J. Filos, A. Canclini, M. R. P. Thomas, F. Antonacci, A. Sarti and P. A. Naylor, "[Robust Inference of Room Geometry from Acoustic Measurements Using the Hough Transform](#)," in *Proc. European Signal Processing Conf. (EUSIPCO)*, Barcelona, Spain, August 2011.
- D. P. Jarrett, E. A. P. Habets, M. R. P. Thomas N. D. Gaubitch and P. A. Naylor, "[Dereverberation Performance of Rigid and Open Spherical Microphone Arrays: Theory & Simulation](#)," in *Proc. Workshop on Hands-Free Speech Communication and Microphone Arrays (HSCMA)*, Edinburgh, Scotland, May 2011.
- D. P. Jarrett, E. A. P. Habets, M. R. P. Thomas and P. A. Naylor, "[Simulating Room Impulse Responses for Spherical Microphone Arrays](#)," in *Proc. International Conf. Acoustics, Speech and Signal Processing (ICASSP)*, Prague, Czech Republic, May 2011.
- M. R. P. Thomas, N. D. Gaubitch, E. A. P. Habets and P. A. Naylor, "[Supervised Identification and Removal of Common Filter Components in Adaptive Blind SIMO System Identification](#)," in *Proc. International Workshop Acoust. Echo and Noise Control (IWAENC)*, Tel-Aviv, Israel, August 2010.
- M. R. P. Thomas, B. Geiser, J. Gudnason, P. A. Naylor and P. Vary, "[Voice Source Estimation for Artificial Bandwidth Extension of Telephone Speech](#)," in *Proc. International Conf. Acoustics, Speech and Signal Processing (ICASSP)*, Dallas, USA, March 2010.
- J. Gudnason, M. R. P. Thomas, P. A. Naylor and D. P. W. Ellis, "[Voice Source Waveform Analysis and Synthesis using Principal Component Analysis and Gaussian Mixture Modelling](#)," in *Proc. Interspeech Conf.*, Brighton, UK, Sept. 2009.
- M. R. P. Thomas, J. Gudnason and P. A. Naylor, "[Detection of Glottal Closing and Opening Instants using an Improved DYPSA Framework](#)," in *Proc. European Signal Processing Conf. (EUSIPCO)*, Glasgow, Scotland, August 2009.
- M. R. P. Thomas, J. Gudnason and P. A. Naylor, "[Data-Driven Voice Source Waveform Modelling](#)," in *Proc. International Conf. Acoustics, Speech and Signal Processing (ICASSP)*, Taipei, Taiwan, April 2009.
- M. R. P. Thomas, J. Gudnason and P. A. Naylor, "[Application of the DYPSA Algorithm to Segmented Time Scale Modification of Speech](#)," in *Proc. European Signal Processing Conf. (EUSIPCO)*, Lausanne, Switzerland, Aug. 2008.
- M. R. P. Thomas and P. A. Naylor, "[The SIGMA Algorithm for Estimation of Reference-Quality Glottal Closure Instants from Electroglottograph Signals](#)," in *Proc. European Signal Processing Conf. (EUSIPCO)*, Lausanne, Switzerland, Aug. 2008.
- M. R. P. Thomas, N. D. Gaubitch, Jon Gudnason and P. A. Naylor, "[A Practical Multichannel Dereverberation Algorithm using Multichannel DYPSA and Spa-](#)

[tiotemporal Averaging](#),” in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2007.

N. D. Gaubitch, M. R. P. Thomas and P. A. Naylor, [“Subband Method for Multi-channel Least Squares Equalization of Room Transfer Functions,”](#) in *Proc. Workshop on App. of Signal Processing to Audio and Acoust. (WASPAA)*, New Paltz, New York, Oct. 2007.

M. R. P. Thomas, N. D. Gaubitch and P. A. Naylor, [“Multichannel DYPSA for Identification of Glottal Closure in Reverberant Speech,”](#) in *Proc. European Signal Processing Conf. (EUSIPCO)*, Poznan, Poland, Sept. 2007.

Contributions to Books

N. D. Gaubitch, M. R. P. Thomas and P. A. Naylor, [“Dereverberation using LPC-Based Approaches,”](#) in *Speech Dereverberation*, P. A. Naylor and N. D. Gaubitch, (eds.), Springer 2010, ch.4, pp. 99–132.

Editorials

M. R. P. Thomas and A. Dhekne, [“Are We There Yet? Indoor Localization and Tracking,”](#) *IEEE Inside Signal Processing*, Jul 2026.

M. R. P. Thomas and N. Tuck, [“The Signal in the Noise: Signal Processing Principles and the Engineering Imperative for Sustainable Systems,”](#) *IEEE Inside Signal Processing*, Mar 2026.

Internal Publications

M. R. P. Thomas and C. Poole, [“Alternative Hardware for ASIMux Video Playout Software,”](#) *BBC R&D Technical Note* no. 2267, Oct. 2003.

M. R. P. Thomas, [“Project SPuD: Sound Processor and Delay for Plasma Display Panels,”](#) *BBC R&D Design Manual* AAA-1824-0130, Sept. 2002.

M. R. P. Thomas, A. Wiewiorka and T. Ferne, [“A Tokenising Compression Algorithm,”](#) *BBC R&D Technical Note* no. 1830, Apr. 2002.

Issued Patents

A. J. Seefeldt, J. B. Lando, D. Arteaga, M. R. P. Thomas and G. N. Dickins, [“Managing playback of multiple streams of audio over multiple speakers,”](#) US Patent 12,170,875 B2, 2024

M. R. P. Thomas and R. J. Cartwright, [“Acoustic zoning with distributed microphones,”](#) US Patent 12,112,750 B2, 2024

G. N. Dickins, C. G. Hines, D. Gunawan, R. J. Cartwright, A. J. Seefeldt, D. Arteaga, M. R. P. Thomas and J. B. Lando, [“Acoustic echo cancellation control for distributed audio devices,”](#) US Patent 12,003,673 B2, 2024

A. J. Seefeldt, J. B. Lando, D. Arteaga, G. N. Dickins and M. R. P. Thomas, [“Adaptable spatial audio playback,”](#) US Patent 12,003,946 B2, 2024

G. N. Dickins, M. R. P. Thomas, A. J. Seefeldt, J. B. Lando, D. Arteaga, C. M. Dionisio, D. Gunawan, R. J. Cartwright and C. G. Hines, [“Coordination of audio devices,”](#) US Patent 11,968,268 B2, 2024

N. R. Tsingos and M. R. P. Thomas and C. Fersch, [“Methods, apparatus and systems for encoding and decoding of directional sound sources,”](#) US Patent 11,887,608 B2, 2024

K. Kjoerling, D. S. McGrath, H. Purnhagen and M. R. P. Thomas, [“Methods and devices for coding soundfield representation signals,”](#) US Patent 11,322,164, 2022

N. R. Tsingos and M. R. P. Thomas and C. Fersch, [“Methods, apparatus and systems for encoding and decoding of directional sound sources,”](#) US Patent 11,315,578, 2022

C. Q. Robinson and M. R. P. Thomas and M. J. Smithers, [“Methods and devices for bass management,”](#) U. S. Patent App. 17/286,313 2021

M. R. P. Thomas and J-H. Hanschke, [“Methods, apparatus and systems for audio sound field capture,”](#) US Patent 10,721,559, 2020.

P. Bilinski, J. Ahrens, M. R. P. Thomas, I. J. Tashev, J. C. Platt, D. E. Johnston, [“HRTF Personalization Based on Anthropometric Features,”](#) US Patent 10,313,818, 2019.

P. Bilinski, J. Ahrens, M. R. P. Thomas, I. J. Tashev, J. C. Platt, D. E. Johnston, [“HRTF Personalization Based on Anthropometric Features,”](#) US Patent 10,284,992, 2019.

H. Gamper, D. E. Johnston, I. J. Tashev, A. Politis, M. R. P. Thomas, [“Systems and methods for non-parametric processing of head geometry for HRTF personalization”](#), US Patent 10,278,002, 2019.

P. Bilinski, J. Ahrens, M. R. P. Thomas, I. J. Tashev, J. C. Platt, D. E. Johnston, [“HRTF Personalization Based on Anthropometric Features,”](#) US Patent 9,900,722, 2019.

S. Kordon and J-M. Batke, A. Krueger, M. R. P. Thomas, [“Method and Apparatus for Processing Signals of a Spherical Microphone Array on a Rigid Sphere used for Generating an Ambisonics Representation of the Sound Field,”](#) US Patent 10,021,508, 2018.

H. Gamper, M. R. P. Thomas, I. J. Tashev, D. E. Johnston, [“Systems and Methods for Audio Creation and Delivery,”](#) US Patent 9,609,436, 2017.