

Resume

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Positions

- ◇ **Research Fellow (Apr. 2012-present)**
College of Engineering and Computer Science, The Australian National University, Canberra, Australia
- ◇ **OCE Postdoctoral Fellowship (Feb. 2010-Mar. 2012)**
CSIRO Process Science and Engineering Division, Lucas Heights Science and Technology Centre, NSW, Australia

Education

- ◇ **PhD in Electrical Engineering**, The Australian National University, Canberra, Australia.
Thesis: “*Measurement and modelling of Head-Related Transfer Function for spatial audio synthesis*”, 2010.
- ◇ **ME in Electrical Engineering**, First-Class Honours (GPA: 86.4/100), The Australian National University, Canberra, Australia.
Thesis: “*Space-frequency channel characterization of ultra-wideband wireless communications*”, 2005.
- ◇ **BE in Telecommunication Engineering**, First-Class Honours (GPA: 89.7/100), Xidian University, Xi'an, China, 2003.

Highlights

- ◇ **Seven-year research experience** in spatial audio and array signal processing.
- ◇ **24 Peer-reviewed Publications** (including 7 published journal articles and 14 international conference papers)+ 3 submitted journal papers.
- ◇ **The Student Travel Grant (US\$500) Awarded by IEEE Signal Processing Society** to attend 2008 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) for the high quality of the paper.

- ◇ **International Collaboration** with A/Prof. Ramani Duraiswami from University of Maryland, College Park, USA and Prof. Walter Kellermann from University of Erlangen-Nuremberg, Germany.
- ◇ **Lecture and HDR Student Supervisor**, College of Engineering and Computer Science, ANU, 2012-present.

Professional Activities

- ◇ Editorial Board, *Advances in Signal Processing*, Horizon Research Publishing (HRPUB), 2013-2016.
- ◇ Editorial board member, *Science Journal of Circuits, Systems and Signal Processing*, 2013-present.
- ◇ Affiliate member, IEEE Signal Processing Society Sensor Array and Multichannel Technical Committee, 2013-present.
- ◇ Member, Institute of Electrical & Electronics Engineers (IEEE), 2010-Present.
- ◇ Member, Journal of the Acoustical Society of America (JASA), 2010-Present.

Journal Publications

- [J1] D. Talagala, W. Zhang, and T.D. Abhayapala, “Broadband DOA estimation using sensor arrays on complex-shaped rigid bodies”, in *IEEE Trans. Audio, Speech, and Language Processing*, vol. 21, no. 8, pp. 1573-1585, Aug. 2013.
- [J2] W. Zhang, S.J. Spencer, and P. Coghill, “Charaterisation of acoustic emissions resulting from particle collision with a stationary bubble”, in *Journal of the Acoustical Society of America*, vol. 133, no. 5, pp. 2523-2527, May 2013.
- [J3] W. Zhang, M. Zhang, R.A. Kennedy and T.D. Abhayapala, “On high resolution head-related transfer function measurements: An efficient sampling scheme”, in *IEEE Trans. Audio, Speech, and Language Processing*, vol. 20, no. 2, pp. 575-584, Feb. 2012.
- [J4] W. Zhang, T.D. Abhayapala, R.A. Kennedy, and R. Duraiswami, “Insights into head-related transfer function: Spatial dimensionality and continuous representations”, in *Journal of the Acoustical Society of America*, vol. 127, no. 4, pp. 2347-57, Apr. 2010.
- [J5] W. Zhang, R.A. Kennedy, and T.D. Abhayapala, “Efficient continuous HRTF model using data independent basis functions: Experimentally guided approach”, in *IEEE Trans. Audio, Speech, and Language Processing*, vol. 17, no. 4, pp. 819-829, May 2009.
- [J6] W. Zhang, S.J. Spencer, and P. Coghill, “An acoustic technique for measurement of bubble solids mass loading (a) Fundamental study of single bubble”, in *Minerals Engineering*, vol. 36-38, pp. 45-52, Oct. 2012.
- [J7] S.J. Spencer, R. Bruniges, G. Roberts¹, V. Sharp, A. Catanzano, W.J. Bruckard, K.J. Davey and W. Zhang, “An acoustic technique for measurement of bubble solids mass loading (b) Monitoring of Jameson Cell flotation performance by passive acoustic emissions”, in *Minerals Engineering*, vol. 36-38, pp. 21-30, Oct. 2012.