

PETER BELL
Curriculum Vitae

Informatics Forum, 10 Crichton St, Edinburgh EH8 9AB

Post-graduation career

- 2019 – Reader (Associate Professor) in Speech Technology
School of Informatics, University of Edinburgh
- 2010 – 2019 Research Associate/Senior Research Associate
School of Informatics, University of Edinburgh
70% FTE Sept 2012 – Apr 2018
- 2012 – 2019 Senior Speech Scientist, Quorate Technology Ltd

Education

- 2005 – 2010 PhD in Automatic Speech Recognition, University of Edinburgh
Thesis: *Full Covariance Modelling for Speech Recognition*
- 2004 – 2005 MPhil, Computer Speech, Text and Internet Technology, University of Cambridge
(grade A)
- 1999 – 2002 BA, Mathematics, University of Cambridge (class 2:i).

Research interests

Automatic speech recognition (ASR): domain adaptation and regularisation for neural networks; low resource languages; end-to-end training; multi-task learning; lightly supervised and semi-supervised training

Selected research grants

- 2020 – Principal Investigator, *UnMute*, EPSRC responsive mode, £1,213,000
- 2020 – Principal Investigator, Consolidated PhD studentships, industry funding £654,000
- 2020 – Lead Co-Investigator, *CoG-MHEAR*, EPSRC programme grant, £4,000,000
- 2017 – 2021 Co-investigator, *Systems for Cross-language Information Processing, Translation and Summarisation*, IARPA MATERIAL Programme, £961,000 (With Steve Renals and Kenneth Heafield)
- 2019 – 2021 Co-investigator, *Adapting end-to-end speech recognition systems*, Samsung, £137,400 (with Steve Renals)
- 2018 – Co-investigator, *SpeechWave*, EPSRC responsive mode, £835,000 (with Steve Renals)

Postgraduate student supervision

- 2021 – Christoph Minixhofer, PhD supervisor
- 2020 – Zeyu Zhao, PhD supervisor
- 2020 – Sarenne Wallbridge, PhD supervisor
- 2020 – Zeyu Zhao, PhD supervisor
- 2019 – Jie Chi, PhD supervisor
- 2019 – Andrea Carmantini, PhD supervisor
- 2018 – Chao Luu, PhD supervisor
- 2017 – 2021 Shucong Zhang, PhD co-supervisor
- 2016 – 2020 Joanna Rownicka, PhD co-supervisor
- 2016 – 2020 Ondřej Klejch, PhD co-supervisor
- 2015 – 2020 Joachim Fainberg, PhD co-supervisor
- 2014 – 2018 Ahmed Ali, PhD co-supervisor
- 2011 – 2016 Pawel Swietojanski, PhD co-supervisor

Recent teaching experience

- 2020 – Lecturer and course organiser, Automatic Speech Recognition (MSc/UG)
- 2017 Guest lecturer, Machine Learning Practical (MSc)
- 2014 – MSc/MInf project supervisor

Knowledge exchange and impact

- 2020 – School of Informatics Impact Coordinator, responsible for Impact Case Study submission to REF2021
- 2021 – 2022 Report on speaker recognition technologies to Investigatory Powers Commissioner’s Office, part of the UK Home Office
- 2019 – 2020 Consultancy with Quorate Technology Ltd (now London Stock Exchange Group) advice on lightly supervised and semi-supervised training for ASR £12,000
- 2015 – Consultancy with Auris Technology Ltd, applying research outputs to child ASR, £50,000
- 2015 – 2017 Consultancy with CEDAR Audio Ltd, investigating ASR performance with microphone array processing, £3,000
- 2015 – Domain adaptation research extended through PhD studentship with Bloomberg Inc
- 2011 – 2013 Consultancy, research licensing and Knowledge Transfer Partnership with France Telecom, £40,000, plus further research funding
- 2012 Research tools licensed to Quorate Technology Ltd

Other professional activities

- Challenge Chair, IEEE SLT 2023
- Publication Chair, ISCA Interspeech 2023
- Keynote speaker, Baltic Human Language Technology Conference, 2018
- Invited talks at National Institute of Information and Communication Technology, Kyoto, Japan; National Institute of Informatics, Tokyo, Japan; University of Birmingham; CNRS, Paris
- Reviewer for IEEE/ACM Transactions on Audio, Speech and Language Processing; IEEE Signal Processing Letters; Computer Speech and Language; Interspeech; ICASSP; SLT; ASRU; ICLR; NIPS

Publications

See <https://scholar.google.co.uk/citations?user=frf1FbAAAAAJ&hl=en> for a recent list