



## Research output

### **A thirteenth-century theory of speech**

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### **A longitudinal study of intonation in a cappella singing quintet**

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### **Determining The Relevant Criteria For 3D Vocal Tract Characterisation**

Vos, R. R., Murphy, D. T., Howard, D. M. & Daffern, H., 21 Jun 2017, (E-pub ahead of print) In: *Journal of Voice*. p. 1-13 13 p.

### **The Perception of Formant Tuning in Soprano Voices**

Vos, R. R., Daffern, H., Howard, D. M. & Murphy, D. T., 26 May 2017, (E-pub ahead of print) In: *Journal of Voice*.

### **Resonance Tuning in Three Girl Choristers**

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### **Case study longitudinal voice change in English cathedral girl choristers**

Howard, D. M., Welch, G. & Himonides, E., 2015.

### **Intonation and Staying in Tune in A Cappella Choral Singing**

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### **On the epilarynx dimensions for voice classification**

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### **The Vocal Tract Organ and the Vox Humana organ stop**

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### **A new method to explore the spectral impact of the piriform fossae on the singing voice: Benchmarking using MRI-based 3D-printed vocal tracts**

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## **Projects**

### **Application Of Technology**

Howard, D. M. (Principal investigator)

AHRC

1/05/03 → 30/04/04

### **Culture-Tender: VOICE: Vision on Innovation for Choral Music in Europe**

Howard, D. M. (Principal investigator)

EUROPEAN COMMISSION

1/06/12 → 1/09/15



**Embryonic Hardware for Dependable Computing Systems: Embryonic Hardware for Dependable Computing Systems**

Tyrrell, A. (Principal investigator) & Howard, D. M. (Other)

EPSRC

1/12/02 → 30/06/06

**Exploring the effect of musical context on vibrato pitch**

Howard, D. M. (Principal investigator)

AHRC

1/01/07 → 7/05/07

**High-level control of music synthesis for musicians**

Howard, D. M. (Principal investigator)

EPSRC

1/09/04 → 31/10/07

**Perfecting the Babble app: Turning a voicing detection app into a full babble detector**

Keren-Portnoy, T. (Principal investigator), Daffern, H. (Co-investigator), Howard, D. M. (Co-investigator) & DePaolis, R. A. (Co-investigator)

4/09/15 → 4/03/16

**Poetic**

Tyrrell, A. (Principal investigator), Howard, D. M. (Other) & Halliday, D. M. (Other)

EUROPEAN COMMISSION

1/09/01 → 28/02/05

**R0162801 Use & Implementation**

Howard, D. M. (Principal investigator)

AHRC

1/01/04 → 31/07/05

**Technology and the healthy human voice in performance**

Howard, D. M. (Principal investigator)

EPSRC

1/03/05 → 31/08/07

**CreST: The Creative Speech Technology Network**

Edwards, A. D. N. (Principal investigator), Newell, C. (Researcher), Howard, D. M. (Other) & Pauletto, S. (Other)

EPSRC

1/03/11 → 28/02/13

**Towards real Virtuality**

Howard, D. M. (Principal investigator)

EPSRC

1/04/08 → 31/03/09

**Voice production mechanisms revealed**

Howard, D. M. (Principal investigator)

ECONOMIC AND SOCIAL RESEARCH COUNCIL (ESRC)

9/03/07 → 18/03/07

**Widening young male participation in chorus**

Howard, D. M. (Principal investigator)

AHRC

1/05/08 → 31/10/09