

Andrew McLeod

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Education

- 2014–Present **Informatics PhD**, *University of Edinburgh*, School of Informatics, Edinburgh, UK.
Supervisors: Mark Steedman (Primary), and Simon King (Assistant)
Topic: Automatic Music Transcription using NLP Language Modeling Techniques
- 2009–2013 **Math/CS joint BS/MS**, *Emory University*, Atlanta, GA, USA.
Advisor: Li Xiong
Thesis: *Automatic Transcription of Polyphonic Musical Signals with Linear Matching Pursuit*. <https://etd.library.emory.edu/view/record/pid/emory:d70pn>
Honors:
 - Dean's List in Fall 2009, Spring 2010, Spring 2011, Fall 2011, and Spring 2012.
 - 2012 Deborah Jackson Award winner for outstanding performance by an undergraduate student.
 - 2013 Trevor Evans Award winner for outstanding performance by a Math/CS major.
 - Selected to participate in Microsoft's "Golden Ticket" program (one of 50 students from around the US).
 - Placed 132nd out of 1515 teams in IEEE's IEEEExtreme 5.0 24 hour programming competition.

Industry Experience

- 2013–2014 **Research Associate**, *Emory University*, Atlanta, GA, USA.
Working with James Lu
Topic: Patchwriting and general NLP
- 2013–2014 **Technical Assistant**, *Math/CS Department*, Emory University, Atlanta, GA, USA.
 - Developed programs and tools in PHP to assist admin and IT staff members.
 - Developed a M68000 emulator in C and a backend to allow remote GDB debugging.
- Summer 2012 **Technical Intern**, *Suntrust Banks, Inc.*, Atlanta, GA, USA.
 - Designed and implemented strategy for knowledge gathering and knowledge management of testing data.
 - Assisted in the updating of EIS Solutions Framework terms.
 - Coded an excel macro to aid in the tracking of training courses.
- 2010–2012 **Technical Intern**, *Career Center*, Emory University, Atlanta, GA, USA.
 - Assisted in redesign of Center website providing insight in user functionality and site aesthetics.
 - Maintain website features including the development of interactive PowerPoint downloads, integration of career development instructional videos, and general content management.

Administrative Experience

- 20 July, 2016 **Organizer: 1st UK Music Informatics and Cognition (MIC) 2016 Workshop, University of Edinburgh.**
- Brought together music researchers from around the UK.
 - See <http://homepages.inf.ed.ac.uk/s1331854/mic2016.html>

Outreach

- 2015-Present **Crew Member: CompuCast, the computer science podcast, University of Edinburgh.**
- Bi-monthly podcast featuring computer science news and interviews with researchers.
 - See <http://compucast.io/>
- 2016 **Demonstrator: Various primary school age classes, teaching basic programming, University of Edinburgh.**
- INSPIRE Summer School 2016
 - Sutton Trust Summer School 2016
 - Edinburgh Science Festival 2016

Posters

Musical Meter Detection Using Context-Free Grammars.

- At the 1st UK Music Informatics and Cognition (MIC) 2016 Workshop, University of Edinburgh, (20 July, 2016).

Meter Identification of MIDI Using Pattern Detection.

- At the Late Breaking Demo session at ISMIR 2015, Malaga, Spain, (30 Oct, 2015).

Presentations

Meter Detection From Music Data.

- Joint work with Mark Steedman
- At DMRN+11: Digital Music Research Network One-day Workshop 2016, Queen Mary University of London, (20 December, 2016).

Symbolic Music Analysis for Music Transcription.

- At the 1st UK Music Informatics and Cognition (MIC) 2016 Workshop, University of Edinburgh, (20 July, 2016).

Peer-reviewed Publications

Andrew McLeod and Mark Steedman. Hmm-based voice separation of midi performance. *Journal of New Music Research*, 45(1):17–26, 2016.