

CURRICULUM VITAE

Dr Jason A. Hockman

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Born: New York City, USA. 31 January 1978 (USA citizen, Canadian permanent resident)

Current Position: **Lecturer in Audio Engineering (2015–)**
School of Digital Music Technology
Faculty of Computing, Engineering, and the Built Environment
Birmingham City University, Birmingham, United Kingdom

Research Interests: Music information retrieval, computational musicology, rhythm analysis, beat and meter detection, onset detection, score following, digital signal processing, machine learning, gestural control and mapping, web applications

Education:

2014	McGill University	Ph.D	Music Research
2007	New York University	M.M.	Music Technology
2000	Cornell University	B.A.	Sociology
1996	Horace Greeley High School, Chappaqua, New York, USA		

Recent Employment History:

2013–4	Research Assistant Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT) McGill University, Montreal, Canada Develop rhythm analysis software (Kathak Dance Motion Capture Project)
2013–	Record Label Owner Detuned Transmissions, Montreal, Canada Own and manage independent international record label with distribution throughout Europe and North America (www.detunedtransmissions.com)
2011–12	Research Assistant Schulich School of Music, McGill University, Montreal, Canada Develop harpsichord score following software (Centre for Centre de Recherche sur l'Interprétation au Clavecin [CRIC] Grant), website development and maintenance
2009–11	Research Assistant Schulich School of Music, McGill University, Montreal, Canada Develop objective and perceptual evaluation of phonograph playback systems for digitization systems (McGill Audio Quality [MAQ] Grant), website maintenance
2009–10	Course Instructor Schulich School of Music, McGill University, Montreal, Canada Teach undergraduate and Q-year courses in Music Technology
2008–09	Teaching Assistant Schulich School of Music, McGill University, Montreal, Canada Assistant instruction, grading, lab and individual tutoring

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- 2007–08 **Research Assistant**
Schulich School of Music, McGill University, Montreal, Canada
Develop evaluation methodology for optical music recognition, manage laboratory storage and backup facilities, website maintenance
- 1999– **Music Producer and Performer**
Electronic music artist (aliases: Jason oS, oS, DAAT)

Awards / Grant Recipient:

- 2014 **MIXMAG Tune of the Month (July 2014):** DAAT – Fridge [DTND002] on Detuned Transmissions
- 2012–13 **CIRMMT Student Award:** Score Follower as a Production Tool for Contemporary Music Recording
- 2011–12 **McGill GPS Initiative for Research Travel Funding:** Downbeat Detection at INESC TEC, Portugal
- 2011–12 **CIRMMT Student Award:** Beat Saliency
- 2010 **ISMIR Student Travel Award:** Fast vs. slow: Learning tempo octaves from user data, Utrecht, NL
- 2009–10 **CIRMMT Student Award:** Real-time Automated Rhythmic Transformations of Polyphonic Music
- 2008 **CIRMMT General Assembly Best Poster:** Automated Rhythmic Transformation of Musical Audio

Academic and Professional Committees:

- | | | |
|---------|--------------------------------|--|
| 2012 | Invited Expert | Shakelt: Mechanisms of Groove and Applications Project |
| 2011– | Program Committee member | MIRUM Workshop at ACM MM 2011–2 |
| 2009–11 | Program co-Chair/Session Chair | f(MIR) Workshop at ISMIR 2009–11 |
| 2009–10 | Student Representative | CIRMMT Board of Directors |
| 2008–09 | Axis Representative | CIRMMT Student Executive Committee |
| 2006–07 | Student Member | MARL Music Technology Research Group |

Additional Education / Research Experience:

- | | | |
|--------|---------------------------------|----------------------------|
| 2012 | INESC TEC, University of Porto | Visiting Research Student |
| 2007 | Queen Mary University of London | Associate Research Student |
| 2001–2 | Pyramid Sound Studios (NY, USA) | Assistant Engineer |

Language Fluency:

- | | |
|---------|--|
| English | reading, speaking, and writing proficiency |
| Latin | reading and writing proficiency |

Refereed Publications:

- Devaney, J., **J.A. Hockman**, J. Wild, and I. Fujinaga. 2013. Diatonic semitone tuning in two-part singing. In *Proceedings of the 2013 Society of Music Perception and Cognition Conference*, Toronto, Canada.
- Weigl, D., D. Sears, **J.A. Hockman**, S. McAdams, and C. Guastavino. 2013. Investigating the effects of beat saliency on beat synchronization judgements during music listening. In *Proceedings of the 2013 Society of Music Perception and Cognition Conference*, Toronto, Canada.
- Hockman, J.A.**, and I. Fujinaga. 2012. One in the jungle: Downbeat detection in hardcore, jungle, and drum and bass. In *Proceedings of the International Society of Music Information Retrieval Conference*, Porto, Portugal. 169–74.
- Hockman, J.A.**, D.M. Weigl, C. Guastavino, and I. Fujinaga. 2011. Discrimination between phonograph playback systems. In *Proceedings of the 131st Convention of the Audio Engineering Society*, New York, United States.
- Hockman, J.A.**, and I. Fujinaga. 2010. Fast vs. slow: Learning tempo octaves from user data. In *Proceedings of the International Society of Music Information Retrieval Conference*, Utrecht, Netherlands. 231–6.

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McKay, C., J.A. Burgoyne, **J.A. Hockman**, J. Smith, G. Vigliensoni, and I. Fujinaga. 2010. Evaluating the performance of lyrical features relative to and in combination with audio, symbolic and cultural features. In *Proceedings of the International Conference on Music Information Retrieval*, Utrecht, Netherlands. 213–8.

Li, Z., Q. Xiang, **J.A. Hockman**, J. Yang, Y. Yi, I. Fujinaga, and Y. Wang. 2010. A music search engine for therapeutic gait training. In *Proceedings of ACM Multimedia 2010*, Florence, Italy.

Hockman, J.A., M.M. Wanderley, and I. Fujinaga. 2009. Phase vocoder manipulation by runner's pace. In *Proceedings of the Conference for NIME*, Pittsburg, United States. 90–3.

Hockman, J.A., M.E.P. Davies, J. Bello, and M. Plumbley. 2008. Automated rhythmic transformation of musical audio. In *Proceedings of the International Conference on DAFX*, Espoo, Finland. 177–80.

Pugin, L., **J.A. Hockman**, J.A. Burgoyne, and I. Fujinaga. 2008. Gamera versus Aruspix: two optical music recognition approaches. In *Proceedings of the International Conference on Music Information Retrieval*. Philadelphia, United States. 419–25.

Dissertations/Theses:

Hockman, J.A., 2014. An ethnographic and technological study of breakbeats in Hardcore, Jungle, and Drum & Bass. Doctoral dissertation, McGill University.

Hockman, J.A., 2007. Automatic timbre mutations of drum loops. Master's thesis, New York University.

Invited Talks/Presentations/Posters/Demos:

- 2014 **Translating Visual Cues into the Auditory Domain**
School of Music, Dartmouth College
Invited Talk, Workshop in the Woods: Audio Visual Synthesis. New Hampshire, USA.
- 2014 **Breakbeat Era: On the Creation and Development of the Technologically-driven Genres of Hardcore, Jungle, and Drum & Bass**
Schulich School of Music, McGill University
Invited Talk, Music and Genre: New Directions. Montreal, Canada.
- 2014 **Technological and Musicological Research of Breakbeats in Hardcore, Jungle, and Drum & Bass**
Schulich School of Music, McGill University
Invited Talk, Music Technology Seminar. Montreal, Canada.
- 2013 **Computational Analysis of Breakbeat Manipulation in Hardcore, Jungle, and Drum & Bass**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Invited Talk, Workshop on Symbolic Music Processing, Semantic Audio, and MIR. Montreal, Canada.
- 2013 **Score Follower as a Production Tool for Contemporary Music Recording**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Poster, CIRMMT Student Symposium 2013. Montreal, Canada.
- 2012 **Breakscience Project: Computational Analysis of Hardcore, Jungle, and Drum & Bass**
Schulich School of Music, McGill University
Invited Talk, Doctoral Colloquium. Montreal, Canada.
- 2012 **One in the Jungle: Downbeat Detection in Hardcore, Jungle, and Drum & Bass**
Presentation, International Society for Music Information Retrieval (ISMIR) Conference. Porto, Portugal.
- 2012 **Beat Salience**
Research Center for Science and Technology of the Arts (CITAR), Catholic University of Portugal
Poster, ISMIR Satellite Workshop: Multidisciplinary Aspects of Groove in Music. Porto, Portugal.
- 2012 **Towards Computational Analysis of Hardcore, Jungle, and Drum & Bass**
Institute for Systems and Computer Engineering of Porto (INESC TEC), University of Portugal.
Invited Talk, Sound and Music Computing Group. Porto, Portugal.

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- 2012 **Score Following of Live Soloists towards Basso Continuo**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Invited Talk, Workshop on Centre de Recherche sur l'Interpretation au Clavecin. Montreal, Canada.
- 2012 **Beat Saliency**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Poster, CIRMMT Student Symposium 2012. Montreal, Canada.
- 2011 **Fast vs. Slow: Learning Tempo Octaves from User Data**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Poster, CIRMMT Student Symposium 2011. Montreal, Canada.
- 2011 **Discrimination between Phonograph Playback Systems**
Jacob K. Javitz Convention Center
Poster, Convention of the Audio Engineering Society. New York, USA.
- 2010 **Fast vs. Slow: Learning Tempo Octaves from User Data**
Poster, International Society for Music Information Retrieval (ISMIR) Conference. Utrecht, NL.
- 2010 **Interactive, Real-time Rhythm Transformations of Musical Audio** (with Joseph Malloch)
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Poster & Demo, CIRMMT Student Symposium 2010. Montreal, Canada.
- 2009 **Content-based Transformations of Audio, National University of Singapore (NUS)**
School of Computing, National University of Singapore.
Invited Talk, Sound and Music Computing Lab. Singapore, Republic of Singapore.
- 2009 **Real-time Phase Vocoder Manipulation by Runner's Pace**
Carnegie Mellon School of Music, Carnegie Mellon University
Presentation & Demo, New Interfaces for Musical Expression International Conference. Pittsburgh, USA.
- 2009 **Real-time Phase Vocoder Manipulation by Runner's Pace**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Poster & Demo, CIRMMT Student Symposium 2009. Montreal, Canada.
- 2008 **Automated Rhythmic Transformations of Musical Audio**
Helsinki University of Technology (TKK)
Poster & Demo, International Conference on Digital Audio Effects 2008. Espoo, Finland.
- 2008 **Rhythmic Transformations of Musical Audio**
Centre for the Interdisciplinary Research of Music Media and Technology (CIRMMT)
Demo, CIRMMT Student Symposium 2009. Montreal, Canada.
- 2006 **Sampling Theory and Application**
College of Arts and Sciences, Cornell University
Invited Talk, Music Technology Seminar. New York, USA.

Courses Taught:

2008–10	Seminar Instructor	McGill University	New Media Production [MUMT 302]
2009	Seminar Instructor	McGill University	Fundamentals of New Media [MUMT 202]
2007	Seminar TA	McGill University	Electroacoustics [MUSR 339]
2001	Seminar TA	Cornell University	Film Scoring [Music 420]
2000	Seminar TA	Cornell University	Introduction to Digital Music [Music 120]

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Musical Career (selected highlights):

Performances (DJ, live PA, and electroacoustics):

2014	The Session with dBridge	Montreal, Canada
2013–	Artefact (monthly event)	Montreal, Canada
2013	Organic Music Podcast [†]	London, UK
2013	Detuned Recordings Label Launch [†]	Montreal, Canada
2013	Modular Systems on CKUT FM Radio [†]	Montreal, Canada
2013	So You Think You Can Jump	New York, USA
2012	Bustle Beats Record Label Launch Party	Montreal, Canada
2011	Rise from Your Grave [†]	New York, USA
2009	Thunder [†]	Vermont, USA
2008	Modular Systems on CKUT FM Radio [†]	Montreal, Canada
2008	Technicality [†]	London, UK
2008	KO Drum and Bass [†]	Montreal, Canada
2007	Sunday Grunge [†]	Budapest, Hungary
2006	Bar 13	New York, USA
2004	Filter 14	New York, USA
2004	Fukn'Wild	Eindhoven, Netherlands
2004	Counter Intelligence Sessions Radio Show [†]	Tilburg, Netherlands
2001	Trio w/ Donald Byrd & Joe Chambers	New York, USA
1996	Westchester Youth Symphony Orchestra (Cello)	Carnegie Hall, NY, USA

[†] headliner for event

Discography:

2014	DAAT	HVAC LP	Detuned Transmissions, CA (d)
2014	DAAT	Fridge*/Apache	Detuned Transmissions, CA (v)
2014	DAAT	Phytochrome**	Subtle Audio Recordings, UK (v,d)
2014	Jason oS	Love and Hate	Detuned Transmissions, CA (d)
2013	DAAT	1999/Crashes (w/Dominic Ridgway)**	Detuned Transmissions, CA (v,d)
2013	DAAT	5D	Jungletrain Records, NL (d)
2013	ICONS	Time Undefined (Jason oS remix)	Modern Urban Jazz Records, UK (c,t,d)
2012	Jason oS	Flatline**	Modern Urban Jazz Records, UK (c,d)
2012	DAAT	Orange Line/Orange Line (Deep Blue remix)***	Offshore Recordings, USA (v,d)
2011	Justice & Metro	Solomon (Jason oS remix)	Modern Urban Jazz Records, UK (v,d)
2011	Jason oS	I Know	Absys Records, IRL (c,d)
2011	Eschaton	Nucleus (DAAT '97 remix)	Omni Music, UK (c)
2010	Anonymi	Venturi (Jason oS remix)/Station	Digibeat Music, UK (d)
2008	Jason oS	Clark Nova/Ripley's Theme/Annexia (Equinox rmx)	Counter Intelligence Recordings, NL (v,d)
2008	Jason oS	Annexia	Counter Intelligence Recordings, NL (d)
2008	Jason oS	What Do You Like?	Subtle Audio Recordings, UK (v,d)
2006	oS	Bears	Exegene Recordings, UK (c,d)
2005	oS	808 (Omni Trio remix)/808 (Psidream remix)	Cymbalism Recordings, USA (v,d)
2004	oS	Panama/808	Cymbalism Recordings, USA (v,d)

v: 12" vinyl
c: compact disc
t: cassette tape
d: digital release

* **MIXMAG** Tune of the Month – July 2014

** **Organic Music** 2013 Top Ten

*** **Everyday Junglist** 12" of the week