



Adam R. Tindale

Curriculum Vitae

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Professional Experience

Associate Professor of Human-Computer Interaction. Digital Futures Initiative. OCAD University. 2012 - Present. Associate Chair of Digital Futures Undergraduate 2014–2015.

Permanent Instructor of Interaction Design, Media Arts & Digital Technologies. Alberta College of Art + Design. 2007–2012. Department Head 2010–2012.

Research Assistant. University of Victoria Assistive Technology Team. University of Victoria. 2006.

Teaching Assistant. University of Victoria. 2005–2007.

Research Assistant. George Tzanetakis. University of Victoria. 2005–2007.

Instructor. McGill University. 2004.

Teaching Assistant. McGill University. 2003.

Research Assistant. *Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT)*. McGill University. 2003–2004.

Research Assistant. *New Directions in Chamber Music Project*. Concordia University. 2002.

Education

Interdisciplinary Ph.D. in Music, Computer Science, and Electrical Engineering. University of Victoria. 2009.

Masters of Arts in Music Technology. McGill University. 2004.

Bachelor of Music. Queen's University (1st Class). 2001.

Grants and Awards

Research Seed Grant. OCAD University. 2014.

ENGAGE. Industry Partner: Autodesk Research. Natural Sciences and Engineering Research Council of Canada. 2014.

Collaborative Research + Development: Brazil. Natural Sciences and Engineering Research Council of Canada. 2013.

Collaborative Research + Development: Brazil. International Science and Technology Partnerships Canada. 2013.

OCADU-GRAND NCE Collaboration Award. GRAND National Centre of Excellence. 2012.

Faculty Professional Affairs Grant. Alberta College of Art + Design. 2012.

Visiting Artists + Designer Initiative Grant. Alberta College of Art + Design. 2012.

Scholarly Research + Creativity Initiative Grant. Alberta College of Art + Design. 2011.

Visual Arts and New Media Production Grant. Alberta Foundation for the Arts. 2010.



Faculty Professional Affairs Grant. Alberta College of Art + Design. 2010.
Alberta Creative Development Initiative Grant. Canada Council for the Arts. 2010.
Faculty Enrichment Fund Grant. Alberta College of Art + Design. 2009.
Marion Fund for Innovation in Research and Teaching Grant. Alberta College of Art + Design. 2009.
Faculty and Staff Research and Development Grant. Alberta Association of Colleges + Technical Institutes. 2009.
Faculty Mentored Student Innovation Grant. Alberta Association of Colleges + Technical Institutes. 2009.
Artist Scholarship for Interarrrium Residency. Theatre of the New Heart. 2009.
Professional Activities Grant. Alberta College of Art + Design. 2008.
Graduate Society Travel Grant. University of Victoria. 2007.
Interdisciplinary University of Victoria Fellowship. University of Victoria. 2006–2007.
Special Dean’s Scholarship in Electrical Engineering. University of Victoria. 2005.
Eaton Marianna Scholarship. McGill University. 2004.
Kingston Symphony Scholarship in Music. Queen’s University. 1998, 2000, and 2001.
Queen’s University Scholarship in Music. Queen’s University. 2000.
Davies Scholarship in Music Performance. Queen’s University. 2000.
Winner of Queen’s Concerto/Aria Competition. Queen’s University. 2000.

Workshops

Tindale, A. Programming for Artists. Centre3 for Print and Media Arts. Hamilton, ON, Canada. 2014.
Kirton, T., Debicki, G., and Tindale, A. Cocoa For Artists. New York University. New York, NY, USA. 2013.
Tindale, A. Processing. University of Cincinnati. Cincinnati, OH, USA. 2011.
Fyfe, L., and Tindale, A. Multi-touch Tabletop Music. *CCRMA Summer Workshops*. Stanford University, Palo Alto, CA, USA. 2010.
Tindale, A. ChucK Workshop. EMMEDIA. Calgary, AB, Canada. 2009.
Wang, G., Cook, P., Misra, A., Kapur, A., and Tindale A. Mapping Controllers with ChucK. *Conference on New Interfaces for Musical Expression*. Vancouver, BC, Canada. 2005.

Residencies

Banff New Media Institute - Self Directed Creative Residency. The Banff Centre for the Arts. Banff, AB, Canada. 2011.
Visiting Researcher. CCRMA, Stanford University. Palo Alto, CA, USA. 2010.
Color Data Processing. TINTarts Lab. London, England. 2010.
Senior Artist. Interactive Screen 0.9: The Makers. The Banff Centre for the Arts. Banff, AB, Canada. 2009.
Interarrrium Interdisciplinary Residency. The Banff Centre for the Arts. Banff, AB, Canada. 2009.



Artist In Residence. EMMEDIA. Calgary, AB, Canada. 2008–2009.

Collections

Tindale, A., and Tate, J. 2010. *Lossless Processing*. Rhizome Art Base. The New Museum. New York, New York, USA.

Refereed Journal Papers

Tindale, A. 2014. Theoretical Aesthetics. *Journal of Professional Communication*. 3(2): 89–102.

Tindale, A. and Tzanetakis, G. 2012. The E-Drum: A Case Study for Machine Learning in New Musical Controllers. *Journal of Interdisciplinary Music Studies*. 6(1): 115–136.

Tindale, A., Kapur, A., and Tzanetakis, G. 2011. Training Surrogate Sensors in Musical Gesture Acquisition Systems. *IEEE Transactions on Multimedia*. 13(1): 50–59.

Refereed Conference Papers

Cumming, M., Tindale, A., and Diamond, S. 2014. Haptic pattern representation using music technologies. In *Proceedings of the Conference on Interdisciplinary Musicology*. Berlin, Germany.

Tindale, A., Cumming, M., Pridham, H., Peter, J., and Diamond, S. 2014. Wearable Haptic Gaming Using Vibrotactile Arrays. In *Proceedings of the ACM MobileHCI Conference*. Toronto, ON, Canada.

Holler, C., Crowe, P., Mayhew, A., Tindale, A., and Diamond, S. 2014. Time Tremors: Developing Transmedia Gaming for Children. In *Proceedings of the ACM MobileHCI Conference*. Toronto, ON, Canada.

Clark, C. and Tindale, A. 2014. Flocking: A Framework for Declarative Music-Making on the Web. In *Proceedings of the International Computer Music Conference*, Athens, Greece.

Fyfe, L., Tindale, A., and Carpendale, S. 2014. Extending the Nexus Data Exchange Format (NDEF) Specification. In *Proceedings of the New Interfaces for Musical Expression Conference*. London, England.

Fyfe, L., Tindale, A., and Carpendale, S. 2012. Node and Message Management with the JunctionBox Interaction Toolkit. In *Proceedings of the New Interfaces for Musical Expression Conference*. Ann Arbor, MI, USA.

Fyfe, L., Tindale, A., and Carpendale, S. 2011. JunctionBox: A Toolkit for Creating Multi-touch Sound Control Interfaces. In *Proceedings of the New Interfaces for Musical Expression Conference*. Oslo, Norway.

Tindale, A., Sprague, D., and Tzanetakis, G. 2007. Strike-A-Tune: Fuzzy Music Navigation Using a Drum Interface. In *Proceedings of the International Conference on Music Information Retrieval*, Vienna, Austria.

Tindale, A. 2007. A Hybrid Method for Extended Percussive Gesture. In *Proceedings of The Conference on New Interfaces for Musical Expression*, New York, NY, USA.

Tzanetakis, G., Kapur, A., and Tindale, A. 2006. Learning Indirect Acquisition of Instrumental Gestures using Direct Sensors. In *Proceedings of The International Conference on Multimedia Signal Processing*, Victoria, BC, Canada.

Kapur, A., Tindale, A., Benning, M., and Driessen, P. 2006. The KiOm: A Paradigm for Collaborative Controller Design. In *Proceedings of the International Computer Music Conference*, New Orleans, LA, USA.



Hechmer, A., Tindale, A., and Tzanetakis, G. 2006. LogoRhythms: Learning Functional Typed-Text Programming through Musical Composition. *In Proceedings of the ASEE/IEEE Frontiers in Education Conference*, San Diego, CA, USA.

Kapur, A., Yang, E., Tindale, A., and Driessen, P. 2005. Wearable Sensors for Real-Time Musical Signal Processing. *In Proceedings of the Pacific Rim Conference on Communications, Computers and Signal Processing*, Victoria, BC, Canada.

Tindale, A., Kapur, A., Tzanetakis, G., Driessen, P., and Schloss, A. 2005. A Comparison of Sensor Strategies for Capturing Percussive Gestures. *In Proceedings of The Conference on New Interfaces for Musical Expression*, Vancouver, BC, Canada.

Tindale, A., Kapur, A., Tzanetakis, G., and Fujinaga, I. 2004. Retrieval of Percussion Gestures Using Timbre Classification Techniques. *In Proceedings of the International Conference on Music Information Retrieval*, Barcelona, Spain.

Tindale, A., Kapur, A., and Fujinaga, I. 2004. Towards Timbre Recognition of Percussive sounds. *In Proceedings of the International Computer Music Conference*, Miami, FL, USA.

Refereed Conference Abstracts

Tindale, A. and Windeyer, R. 2015. Punchcard Rewind. *Toronto International Electroacoustic Symposium*. Toronto, ON. Canada. (In Press)

Tindale, A. and Van Nort, D. 2013. Oscillating Oscillators. *Toronto Electroacoustic Symposium*. Toronto, ON. Canada.

Tindale, A. and Kirton, T. 2013. An Authoring Framework for Creative Mobile Music Making. *International Musicological Society - Music and Media: Music on Small Screens*. Ottawa, ON. Canada.

Fyfe, L., Tindale, A. and Carpendale, S. 2012. JunctionBox for Android: An Interaction Toolkit for Android-based Mobile Devices. *Linux Audio Conference*. Palo Alto, CA, USA.

Tindale, A., and Tzanetakis, G. 2011. The E-Drum: A Case Study for Machine Learning in New Musical Controllers. *In Proceedings of The Conference on Interdisciplinary Musicology*. Glasgow, Scotland.

Tindale, A. 2011. Designing Audio Reactive Visual Software. *In Proceedings of the Conference on Understanding Visual Music*. Montreal, QC, Canada.

Tate, J, Boatright, R., and Tindale, A. 2011. Colour Data Processing: An Interactive Installation Exploring Digital and Analog Representations of Colour. *In Proceedings of the International Symposium on Electronic Art*. Istanbul, Turkey.

Tindale, A., and Davies, R. 2008. i send data live. *Text, Music & Improvisation*. Montreal, AB, Canada.

Tindale, A., Benning, M., and Livingston, N. 2007. Virtual Instrument Control for Music Therapy. *In Proceedings of the Conference on Assistive Technology in Europe*. San Sebastian, Spain.

Tindale, A., Kapur, A., Schloss, A., and Tzanetakis, G. 2005. Indirect Acquisition of Percussive Sounds Using Timbre Recognition. *In Proceedings of The Conference on Interdisciplinary Musicology*. Montreal, QC, Canada.

Selected Conference & Festival Performances

Tindale, A. 2015. OSCILLATE. *Toronto International Electroacoustic Symposium*. Toronto, ON. Canada. (In Press)

Tindale, A. 2013. SIMPLE. *Toronto Electroacoustic Symposium*. Toronto, ON. Canada.



- Jarvis, B., Jarvis, A., and Tindale, A. 2013. ABA. *Hazelton Lanes Arts Festival*. Toronto, ON, Canada.
- Tindale, A., Olsen, J., and Fraser, K. 2012. ARRAY. *Soundasaurus*. Calgary, AB, Canada.
- Tindale, A., Silva, R., and Fraser, K. 2012. ARRAY. *High Performance Rodeo - Soundasaurus*. Calgary, AB, Canada.
- Tindale, A. 2011. Untitled 75. *BYOB Calgary* Calgary, AB, Canada.
- Tindale, A., Vandekerkhove, J., and Vandekerkhove, J. 2011. For Acoustic Dancers. *Mile Zero Dance Salon: The Wired Body*. Edmonton, AB, Canada.
- Tindale, A., Vandekerkhove, J., and Vandekerkhove, J. 2011. For Acoustic Dancers. *Sea of Sound*. Edmonton, AB, Canada.
- Tindale, A. 2011. Octophonic. *Calgary Folk Festival - Bin 15 by Mark Lowe presented by EMMEDIA*. Calgary, AB, Canada.
- Clinker, and Tindale, A. 2011. Temporal Extinction Event - Vector Rails. *High Performance Rodeo - Soundasaurus*. Calgary, AB, Canada.
- Tindale, A., Silva, R., Thorhaug, B., and Vallis, J. 2011. ALE. *High Performance Rodeo - Midway*. Calgary, AB, Canada.
- Tindale, A. 2010. Sphere. *Solocentric Festival*. Calgary, AB, Canada.
- Revel, A., Tindale, A., Fraser, K., and Winter, M. 2010. Andrea Revel. *2010 Olympic Games: Athletes' Village Performance Series*. Vancouver, BC, Canada
- Clinker, and Tindale, A. 2010. A Valid Line - Vector Rails. *High Performance Rodeo - Soundasaurus*. Calgary, AB, Canada.
- Chafe, C., and Tindale, A. 2009. Duet. *Interactive Screen*, Banff, AB, Canada.
- Tindale, A. 2009. Solo. *Exploding, Plastic, & Inevitable [redux]*. Calgary, AB, Canada.
- Tindale, A., Silva, R., Thorburg, B., and Debicki, G. 2009. ALE. *Sled Island Festival*. Calgary, AB, Canada.
- Tindale, A., and Davies, R. 2008. i send data live. *Text, Music & Improvisation*, Montreal, QC, Canada.
- Tindale, A., and Davies, R. 2006. i send data live *International Conference on Music Information Retrieval*. Victoria, BC, Canada.
- Tindale, A., and Davies, R. 2006. i send data live. *Interactive Futures*. Victoria, BC, Canada.
- Tindale, A., McNally, K., and Berger, M. 2005. LUVLEE. *West Coast Composers Symposium*. Victoria, BC, Canada.

Invited Talks

- Tindale, A. 2014. Artist Talk. *Function Keys Conference*. Centre3 for Print and Media Arts. Hamilton, ON, Canada.
- Watson, J., Jones, S., and Tindale, A. 2013. Tweet Your Work at the Unicorn *Gamer-camp*. Toronto, ON, Canada.
- Tindale, A. 2013. Beyond Audio Reactive Visuals. *Research Rendezvous*. OCAD University. Toronto, ON, Canada.
- Tindale, A. 2012. Developing Tools for Contemporary Electronic Music Performance. *Alan Turing Lecture Series*. University of Victoria 50th Anniversary. Victoria, BC, Canada.



- Lesick, K., Kirton, T., and Tindale, A. 2012. CE3C: Past, Present, and Future. *Technology in Society: An Exploration*. DeVry Institute of Technology. Calgary, AB, Canada. begin
- DeBoer, J., Elderfield, D., Caswel, D., and Tindale, A. 2012. The Collaboration of Art with Technology & Business. *Yuanfen Flow New Media Arts Centre*. Beijing, China.
- Tindale, A. 2011. Artist Talk. *Dorkbot Calgary. Protospace*. Calgary, AB, Canada.
- Tindale, A., and Tate, J. 2010. iPhone Photography and Implications of Pixel Sorting. *Calgary Open Source Festival*. Calgary, AB, Canada.
- Daelik, Gazzola, P., and Tindale, A. 2009. Artist Talk. *The Scotiabank Dance Centre*. Vancouver, BC, Canada.
- Tindale, A. 2009. Mastering the Contemporary Interface. *EMMEDIA*. Calgary, AB, Canada.
- Tindale, A. 2009. Music, Machines, and Expression. *Interactive Screen 0.9: The Makers. The Banff Centre for the Arts*. Banff, AB, Canada.
- Tindale, A., and Robert, P. 2009. Open Source and the Arts. *Calgary Open Source Festival*. Calgary, AB, Canada.
- Tindale, A. 2008. Innovation. *Inter-Action. Stem Designs*. Calgary, AB, Canada.
- Tindale, A. 2007. The E-Drumset. *West Coast Composers Symposium*. Vancouver, BC, Canada.