

# CURRICULUM VITAE

## Ichiro Fujinaga

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**Born:** Fukuoka, Japan. 1 April 1956 (Canadian citizen)

### Education:

1989–96	McGill University	Ph.D.	Music Technology
1982–89	McGill University	M.A.	Music Theory
1979–82	University of Alberta	B.Mus.	Theory and Percussion
1975–79	University of Alberta	B.Sc.	Applied Mathematics in Computing Science, Honors

**Current Position:** Professor (2021–), Schulich School of Music, McGill University  
*Teach undergraduate and graduate courses in Music Technology Area. Other duties include thesis supervision, administration, and research.*

**Research Interests:** Optical music recognition, digital prosopography, pattern recognition, machine learning, music perception, digital signal processing, sound quality, genetic algorithms, music information acquisition, preservation, and retrieval

### Employment History

- 2021/10– **Professor** (McGill University)  
Canada Research Chair (Tier 1) in Music Information Retrieval (2021-06-01–2028-05-31)  
Coordinator, Music Technology Area (2021–2)
- 2016/01–6/03 **Visiting Professor** (Tsukuba University)  
Graduate School of Library, Information, and Media Studies (Prof. H. Terasawa)
- 2008/09–9/05 **Visiting Professor** (Tsukuba University)  
Graduate School of Library, Information, and Media Studies (Prof. Y. Hiraga)
- 2005/08–21/09 **Associate Professor** (McGill University)  
Associate Dean of Research and Administration (2016–7)  
Chair, Music Technology Area (2009–12, 2014–5, 2017–8)
- 2002/08–5/07 **Assistant Professor** (McGill University)  
Chair, Music Technology Area (2002–3)  
Acting Director, Centre for Interdisciplinary Research in Music Media and Technology (2003/08–2004/11)
- 1999–01 **Principal Consultant** (NSF Digital Libraries Initiative Grant)  
Eisenhower Library, Johns Hopkins University  
*Convert digitally scanned 29,000 pieces of American popular sheet music into computer-readable format and MIDI.*
- 1995–97 (summers) **Visiting Professor** (Japan Advanced Institute of Science and Technology)  
Department of Information Science (Prof. S. Horiguchi)  
*Independent research, conduct seminars, and direct graduate students in multi-media application research.*

- 1993–02      **Faculty**  
 Computer Music Department, Associate Director of Information Technology  
 Peabody Conservatory of Music, Johns Hopkins University  
*Teach graduate courses including Digital Music Programming, Synthesis Theory, and seminars on Csound, Max/Pd, SuperCollider, Web/HTML, and Unix. Other duties include graduate student research consulting and research.*
- 1988–93      **Full-time Research Assistant**  
 Faculty of Music, McGill University  
*Develop an optical music recognition system. Environment: Objective-C, C, Open Look, NeWS (NeXT, Sun 386i).*
- 1986–93      **Programmer/Consultant**  
 Department of Psychology (Prof. D. J. Ostry), McGill University  
*Maintain and develop various programs for analyzing scientific data, including interactive 3D graphic displays. Environment: Microsoft C, HALO (IBM PC).*
- 1984–93      **Systems Analyst**  
 Faculty of Music, McGill University  
*Installation and maintenance of Unix network and PCs in the faculty used for research and administration purposes. Consultation and tutorials for all users. Make purchase recommendation to the faculty. Custom programming.*

**Academic Committees:**

- McGill Standing Internal Review Committee (2019/08–2021/08)
- McGill (Music) Digital Rights Management Committee (Chair: 2016–7)
- CIRMMT Executive Committee (2016–7)
- McGill Teaching and Learning Spaces Working Group (2016–7)
- McGill University Teaching Labs Working Group (2016–7)
- McGill Research Advisory Council (2016–7)
- McGill Prizes and Awards Coordinating Committee (2016–7)
- McGill (Music) Faculty Executive Committee (2016–7)
- McGill (Music) Departmental Tenure Committee (2015–6, 2017–8)
- McGill (Music) Academic Committee on Teaching and Programs (2012–4)
- McGill (Music) Reappointment Committee (2014)
- McGill University Tenure Committee for the University Libraries (2011–3)
- McGill Web Management System Migration Steering Committee (2011–3)
- McGill Music Library Advisory Committee (2010–5, Chair: 2013–5, 2019–)
- McGill Senate (2006–8)
- CIRMMT Board of Directors (2005–15)
- McGill (Music) Technical Committee on Network Management and Development (Chair: 2004–8)
- CIRMMT Executive Committee (2003–4, Chair: 2009–10)
- McGill Music Faculty Position Search Committee (2003, 2005, 2010)
- Dean’s Essay Competition Selection Committee (2003, 2005–6, 2008)
- McGill (Music) Committee of Area Chairs (2002–3, 2009–12, 2014–5)
- McGill (Music) Information System and Technology Committee (2002–8)
- McGill (Music) Subcommittee of Graduate Studies (2002–)
- Peabody Working Group on the Academic Issues (2001–2)
- Peabody CFO Search Committee (2000)
- JHU Provost’s Undergraduate Research Awards Selection Committee (2000–2)
- JHU Technology Fellowship Review Committee (2001–2)
- JHU Subcommittee on Electronic and Distance Education (1996–2002)
- Peabody Academic Council (1997–2001)
- Peabody Committee on Advanced Technologies (1994–2000)
- JHU Diversity Leadership Council (1997–9)
- Peabody Special Committee on Student Relations (Chair: 1997–9)
- Peabody Faculty Assembly (Vice Chair: 1997–9; Chair: 1999–2001)

## Research Grants:

- Co-PI, SSHRC Partnership Development Grant “Digital Analysis of Chant Transmission” (PI: Jennifer Bain, Dalhousie University) (2023–2030) \$2,459,299
- PI, Digital Research Alliance of Canada, Research Platforms and Portals Grant (2023–24) \$23,186
- PI, SSHRC Partnership Grant “LinkedMusic: Interlinking music resources for enhanced access” (2022–29) \$2,500,000
- PI, ComputeCanada, Research Platforms and Portals Grant (2022–23) \$20,017
- PI, Canada Research Chair (Tier 1) in Music Information Retrieval (2021–28) \$1,700,000
- PI, SSHRC Partnership Grant, Stage I “LinkedMusic: Interlinking music resources for enhanced access” (2021–22) \$19,951
- PI, ComputeCanada, Research Platforms and Portals Grant (2021–22) \$25,100
- PI, FRQSC, Research Team Support Grant “Music Information, Research, and Infrastructure” renewal (2021–25) \$365,602
- PI, SSHRC Connection Grant “The 21<sup>st</sup> International Society for Music Information Retrieval Conference” (2020–22) \$24,976
- Co-PI, FWO-SBO (Belgium) “The Sound of Music: Innovative research and valorization of plainchant through digital technology” (PI: David Burn, KU Leuven) (2020/01–2023/12) €2,349,288 (McGill: €74,750)
- PI, ComputeCanada, Research Platforms and Portals Grant (2020–21) \$12,172
- Academic Partner, Arts and Humanities Research Council (UK) “Cultural identity, evolution and transition in the cults of medieval Iberian saints” (PI: Emma Hornby, University of Bristol) (2019/09–2022/08) £804,448 (McGill: £4,600)
- Co-PI, SSHRC Insight Grant “Mapping the Musical Landscape of the Sixteenth Century” (PI: Julie Cumming) (2019–24) \$339,772
- Co-PI, SSHRC Partnership Development Grant “Digital Analysis of Chant Transmission” (PI: Jennifer Bain, Dalhousie University) (2019–22) \$199,348
- PI, ComputeCanada, Research Platforms and Portals Grant (2019–20) \$12,623
- Co-PI, CFI Cyberinfrastructure Initiative “LINCS: Linked Infrastructure for Networked Cultural Scholarship” (PI: Susan Brown, University of Guelph) (2018–2021) \$2,000,000
- Collaborator, SSHRC Partnership Grant “Analysis, creation and teaching of orchestration (ACTOR)” (PI: Stephen McAdams) (2018–26) \$2,500,000
- Co-PI, SSHRC Partnership Development Grant “Technologies of notation and representation: Tenor network” (PI: Sandeep Bhagwati, Concordia University) (2018–21) \$199,460
- PI, ComputeCanada, Research Platforms and Portals Grant (2018–9) \$12,426
- Co-PI, NSERC Strategic Partnership Grants for Projects “ANR Multimodal Analysis and Knowledge Inference for Musical Orchestration (MAKIMOno)” (PI: Stephen McAdams) (2017/09–2020/09) \$551,773
- PI, ComputeCanada, Resources for Research Groups Grant (2017–8) \$2,560
- PI, FRQSC, Projets franco-québécois en sciences humaines et sociales “Recherche d’Information dans les corpus de musique notée” (2016–20) \$208,176
- Collaborator, Andrew W. Mellon Foundation “Enhancing Discovery and Access for Sound Collections” (2016–8) £70,000 (total: £408,411)
- PI, FRQSC, Research Team Support Grant “Music Information, Research, and Infrastructure” (2016–20) \$602,118
- PI, ComputeCanada, Resources for Research Groups Grant (2016–7) \$7,879
- Co-PI, SSHRC Connection Grant “The Music Encoding Conference 2016” (PI: Andrew Hankinson) (2015–16) \$24,027
- PI, SSHRC Partnership Grant “Single Interface for Music Score Searching and Analysis” (2014–21) \$2,726,697
- PI, SSHRC Insight Grant “Cantus ultimus: Building the ideal online plainchant research environment” (2014–19) \$499,694
- PI, FRQSC, Emerging Team Grant “Music Information, Research, and Infrastructure” (2014–17) \$54,963
- Co-PI, FQRSC Programme Regroupements Stratégiques “Centre for Interdisciplinary Research in Music Media and Technology” (PI: Isabelle Cossette) (2014–20) \$1,459,200
- Co-PI, SSHRC Partnership Grant “International institute for critical studies in improvisation: a partnered research institute” (PI: Ajay Heble, University of Guelph) (2014–21) \$2,500,000

PI, SSHRC Partnership Grant Letter of Intent “Single Interface for Music Score Searching and Analysis” (2013–4) \$20,000

Co-PI, NEH Digital Humanities Start-up Grant: Level-II “Digital Prosopography for Renaissance Musicians: Discovery of Social and Professional Network” (PI: Susan F. Weiss, Peabody Conservatory of Music, Johns Hopkins University) (2013–4) \$54,466US

Co-PI, SSHRC Public Outreach Grant “Humanities dissemination & Making Publics using the Resource Description Framework” (PI: Matthew Milner) (2012–3) \$66,017

Co-PI, SSHRC Digging into Data Challenge Grant “Electronic Location of Vertical Interval Successions” (PI: Julie Cumming) (2012–4) \$125,000

Co-PI, SSHRC Insight Development Grant “Optical Neume Recognition Project” (PI: Jennifer Bain) (2012–4) \$74,633

PI, SSHRC Insight Development Grant “Probabilistic Model for Music Content Analysis” (2011–3) \$73,998

McGill Internal Paper Presentation Grant (2011) \$1,500

PI, SSHRC Partnership Development Grant “Single Interface for Music Score Searching and Analysis” (2011–4) \$197,903

Co-PI, SSHRC Research Creation Grant “The art of harpsichord playing in the digital age: A computer-supported exploration of Couperin, basso continuo, and tuning” (PI: Hank Knox) (2011–4) \$248,925

PI, SSHRC Standard Research Grant “Optical music recognition of plainchant” (2010–3) \$141,393

PI, SSHRC Image, Text, Sound and Technology “Tracing the evolution of harmonic idioms in popular music through the late twentieth century” (2010–1) \$49,906

PI, SSHRC Digging into Data Challenge Grant “Structural Analysis of Large Amounts of Music Information” (2010–1) \$53,966

Co-PI, SSHRC Major Collaborative Research Initiatives Program “Advancing Interdisciplinary Research in Singing” (PI: Annabel J. Cohen, University of Prince Edward Island) (2009–15) \$2,298,474

PI, FQRSC Programme soutien aux équipes de recherché “Evaluation perceptive de la qualité audio” (2008–10) \$59,434

PI, FQRSC Programme appui à la recherche-cr ation “Les techniques vocales du repertoire microtonale historique adapt es   la pratique moderne” (2008–11) \$143,756

Co-PI, Andrew W. Mellon Foundation “Networked Environment for Music Analysis” (2008–10) \$90,000US (PI: Stephen Downie, University of Illinois at Urbana-Champaign, total: \$1,200,000)

PI, SSHRC Image, Text, Sound and Technology “Incorporating lyrics into optical recognition technology for early vocal music sources” (2008–9) \$49,932

PI, The Invitation Fellowship for Research in Japan (Long-Term), Japan Society for the Promotion of Science “Usability and cultural issues in designing digital music libraries” (2008–9) \$35,000

Co-PI, NSERC Major Resources Support Program: Infrastructure “Centre for Interdisciplinary Research in Music Media and Technology” (PI: Stephen McAdams) (2007–9) \$57,630

Co-PI, SSHRC Major Collaborative Research Initiatives Program “Improvisation, Community, and Social Practice” (PI: Ajay Heble, University of Guelph) (2007–13) \$2,663,619

PI, SSHRC Image, Text, Sound and Technology “Enhancing optical music recognition technology of Early Music prints and manuscripts for musicological applications” (2007–8) \$49,943

PI, Audio-Visual Preservation Trust of Canada Music Memories Program “Schulich School of Music Archival Digitization Project” (2006–7) \$9,971

PI, Daniel Langlois Foundation Grant “Image-to-Audio conversion of phonograph records” (2006–7) \$35,000

PI, SSHRC Image, Text, Sound and Technology: Networking Grant “Metadata infrastructure for sound recordings” (2006–7) \$49,976

PI, SSHRC Standard Research Grant “Feasibility of digitizing Early Music on microfilms for the creation of large-scale content-searchable database” (2005–8) \$145,838

Co-PI, SSHRC-CURA (Community-University Research Alliances) “Documentation and Preservation of Media Art Heritage: Research and Case Studies” (PI: Alain Depocas) (2005–10) \$1,000,000

PI, CFI New Opportunities Grant “Distributed Digital Music Archives and Libraries” (2005–10) \$597,748

PI, Richard M. Tomlinson Digital Library Innovation and Access Award “Digitization of Edelberg Handel Collection: A Pilot Project” (2003–5) \$15,198

PI, FQRSC Établissement de nouveaux-chercheurs volet individuel “Digitization of Vinyl Phonograph Records with Automatic Generation of Text and Metadata” (2003–6) \$64,628  
 PI, McGill Research Development Grant “Distributed Digital Music Library” (2003) \$38,500  
 Co-PI, FQRSC Regroupements stratégiques “Centre for Interdisciplinary Research in Music Media and Technology” (2003–7) \$792,000  
 Co-PI, NSF Information Technology Research Grant “A Data Capture Framework and Testbed for Cultural Heritage Materials” (PI: Sayeed Choudhury) (2002–6) \$1,500,000US  
 Co-PI, IMLS National Leadership Grant “Digital Audio Archives Project” (PI: Sayeed Choudhury) (2004–7) \$229,352US  
 Co-PI, NSF Digital Libraries Initiative Grant “Digital Workflow Management: The Lester S. Levy Digitized Collection of Sheet Music, Phase Two” (PI: Sayeed Choudhury) (1999–2002) \$530,000US  
 Co-PI, Intel Technology for Education Grant “Scalable High-Performance Computing Applications” (PI: Alex Szalay) (1999–2001) Peabody: \$154,000US (JHU: \$1,700,000US)

#### **Awards:**

Information Processing Society of Japan, Yamashita SIG Research Award 2020, Information Processing Society of Japan (IPSJ) (¥10,000 / \$127CAD)  
 Best Paper Award. 2019. Information Processing Society of Japan, Computers and the Humanities Symposium ((JinMonCom) (¥30,000 / \$360CAD)  
 Best Paper Award. 2019. Music Encoding Conference with Martha E. Thomae and Julie E. Cumming. Transforming Musicology Challenge Paper Prize (Digital Libraries 2014: Digital Library for Musicology Workshop) with Charalampos Saitis and Andrew Hankinson.  
 Outstanding Paper Award. 2006. International Society for Music Information Retrieval (ISMIR) Conference with Cory McKay (\$500USD / \$650CAD)  
 Literati Awards for Excellence: Outstanding paper. 2004. Emerald Publishing  
 Best Presentation Award. 2000. International Computer Music Conference (ICMC)

#### **Professional Affiliations:**

General Co-Chair, International Society for Music Information Retrieval Conference (2020)  
 Board member, Music Encoding Initiative (2015–2020)  
 Advisory Board Member, “Fusing Audio and Semantic Technologies,” an EPSRC project (2014–2019)  
 Advisory Panel, “Transforming Musicology,” an AHRC Large Grant project (2013–2017)  
 Member, Centre de recherche interuniversitaire sur les humanités numériques (CRIHN) (2013–)  
 Guest Editor, *Signal Processing: Special Section: Ethnic Music Audio Documents* (2010)  
 Advisory Board, IMLS funded research: *Improving Access to Digital Music through Content-based Analysis*. (2009–11)  
 General Co-Chair, International Society for Music Information Retrieval Conference (2009)  
 Scientific Advisory Board, International Conference on Music Perception and Cognition (2008)  
 Reviewer, Canadian Association of Information Science Annual meeting (2008)  
 Advisory Board, Journal of Interdisciplinary Music Studies (2007–)  
 Advisory Board, Critical Studies in Improvisation (2007–)  
 Guest Editor, EURASIP Journal on Advances in Signal Processing, *A Special Issue on Music Information Retrieval Based on Signal Processing* (2007)  
 Paper Committee, co-chair, International Computer Music Conference (2006)  
 Academic Committee, Judaic Sound Archives, Florida Atlantic University (2005–)  
 FolkwaysAlive Academic Advisory Committee, University of Alberta (2005–6)  
 Consultant, Mellon Foundation Research Grant: *A Scoping and Feasibility Study towards a Corpus of Encoded Scores of Classical Music* (2005)  
 Journal of Music and Meaning, Editorial Board (2004–)  
 Review Committee, SSHRC-MCRI Mid-term review (2004)  
 Local Organization Committee and Technical Committee, New Interfaces for Musical Expression Conference (2003)  
 Paper Committee, co-chair, Web Delivery of Music Conference (2003)  
 Grants Review Committees: FQRSC Programme d'établissement de nouveaux chercheurs-créateurs (2003); FQRSC Programme de soutien aux regroupements de recherche-crédation (2003)

Steering Committee, International Conference on Music Information Retrieval (2001–9)  
Final Papers Selection Panel, International Computer Music Conference (1999)  
Computing in Musicology, Editorial Advisor (1998–2006)  
International Musicological Society (1997–)  
Manager of Music Theory Online, Society of Music Theory (1997–2007)  
Local Organization Committee, American Musicological Society Meeting (1996)  
International Computer Music Association (1989–)  
Grant reviewer for American Association of the Advancement of Science (USA), Fonds de recherche du Québec – Société et culture (FRQSC), FWF Austrian Science Fund, Engineering and Physical Sciences Research Council (UK), IWT (Belgium), National Science and Engineering Council of Canada (NSERC), Netherlands Organization for Scientific Research, Physical Science Council (The Netherlands), Research Grants Council (Hong Kong), Social Sciences and Humanities Research Council of Canada (SSHRC)  
Paper reviewer for Computer Music Journal, Proceedings of IEEE, Journal of New Music Research, Critical Studies in Improvisation, Signal Processing, IEEE Transaction on Pattern Analysis and Machine Intelligence, EURASIP Journal on Audio, Speech, and Music Processing, EURASIP Journal on Image and Video Processing, Journal of Electronic Imaging, International Journal on Document Analysis and Recognition

Program Committees:

IAPR International Conference on Document Analysis and Recognition (2017–);  
IAPR International Workshop on Graphic Recognition (2017–);  
Conference on Technologies for Music Notation and Representation (2015–);  
Journées d'Informatique Musicale (2015),  
International Workshop on Digital Libraries for Musicology (2014–);  
Society for Mathematics and Computation in Music (2013);  
Joint Conference on Digital Libraries (2010);  
Computer Music Modeling and Retrieval Conference (2008);  
Canadian Association of Information Science Annual meeting (2008);  
New Interfaces for Musical Expression Conference (2007–9);  
AXMEDIS (2006);  
DAFx (Digital Audio Effects) Conference (2006);  
Information Resource Management Association Conference (2005);  
International Conference on Automated Production of Cross Media Content for Multi-channel Distribution (2005);  
Conference on the Art of Record Production (2005);  
Web Delivery of Music Conference (2004);  
International Society of Music Information Retrieval Conference (2001–);  
International Computer Music Conference (1996–2007)

## PUBLICATIONS

### Refereed book chapters

- Fujinaga, Ichiro, Andrew Hankinson, and Laurent Pugin. 2018. "Automatic Score Extraction with Optical Music Recognition." In *Current Research in Systematic Musicology*, edited by Rolf Bader, 299–311. Heidelberg: Springer.
- Burgoyne, John Ashley, Ichiro Fujinaga, and J. Stephen Downie. 2016. "Music Information Retrieval." In *A New Companion to Digital Humanities*, edited by Susan Schreibman, Ray G. Siemens, and John Unsworth, 213–38. Oxford: Wiley-Blackwell Publishing.
- McKay, Cory, and Ichiro Fujinaga. 2012. "Expressing Musical Features, Class Labels, Ontologies, and Metadata Using ACE XML 2.0." In *Structuring Music through Markup Language: Designs and Architectures*, edited by Jacques Steyn, 47–79. Hershey, PA: IGI Global.
- Weiss, Susan Forscher, and Ichiro Fujinaga. 2008. "Electronic Sound." In *Renaissance Studies*, edited by William R. Bowen and Ray G. Siemens, 93–100. Tempe, AZ: Iter Inc.
- Fujinaga, Ichiro, and Susan Forscher Weiss. 2004. "Music." In *Blackwell Companion to Digital Humanities*, edited by Susan Schreibman, Ray G. Siemens, and John Unsworth, 97–107. Oxford: Blackwell Publishing.
- Fujinaga, Ichiro. 2004. "Staff Detection and Removal." In *Visual Perception of Music Notation*, edited by Susan George, 1–39. Hershey, PA: Idea Group Inc.
- Droettboom, Michael, Ichiro Fujinaga, and Karl McMillan. 2002. "Optical music interpretation." In *Statistical Pattern Recognition*, edited by A. Amin, R. Duin, M. Kamel, D. de Ridder, and T. Caelli, 378–86. Berlin: Springer-Verlag.
- Fujinaga, Ichiro, Stephan Moore, and David S. Sullivan. 1999. "Implementation of Exemplar-Based Learning Model for Music Cognition." In *Music, Mind, and Science*, edited by S. W. Yi, 69–81. Seoul: Seoul National University Press.

### Refereed journal papers

- Castellanos, Francisco J., Antonio Javier Gallego, Jorge Calvo-Zaragoza, and Ichiro Fujinaga. 2022. "Domain Adaptation for Staff-Region Retrieval of Music Score Images." *International Journal on Document Analysis and Recognition (IJDAR)* 25 (4): 281–92. <https://doi.org/10.1007/s10032-022-00411-w>.
- Draginda, Yulia, and Ichiro Fujinaga. 2021. "'Life, Color, Warmth and Truth': Expressive Timing in German Late Romantic Organ Music." *Per Musi* 40: 1–17. <https://doi.org/10.35699/2317-6377.2020.26080>.
- Tardón, Lorenzo J., Isabel Barbancho, Ana M. Barbancho, and Ichiro Fujinaga. 2020. "Automatic Staff Reconstruction within SIMSSA Project." *Applied Sciences* (10): 2468.
- De Luca, Elsa, Jennifer Bain, Inga Behrendt, Ichiro Fujinaga, Kate Helsen, Alessandra Ignesti, Debra Lacoste, and Sarah Ann Long. 2019. "Capturing Early Notations in MEI: The Case of Old Hispanic Neumes." *Zeitschrift der Gesellschaft für Musiktheorie* 16 (3): 227–247.
- Calvo-Zaragoza, Jorge, Francisco J. Castellanos, Gabriel Vighienoni, and Ichiro Fujinaga. 2018. "Deep Neural Networks for Document Processing of Music Score Images." *Applied Sciences* 8 (5): 654–657.
- Siedenburg, Kai, Ichiro Fujinaga, and Stephen McAdams. 2016. "A Comparison of Approaches to Timbre Descriptors in Music Information Retrieval and Music Psychology." *Journal of New Music Research* 45 (1): 27–41. doi:10.1080/09298215.2015.1132737.
- Helsen, Kate, Jennifer Bain, Ichiro Fujinaga, Andrew Hankinson, and Debra Lacoste. 2014. "Optical Music Recognition and Manuscript Chant Sources." *Early Music* 42 (4): 555–8. doi:10.1093/em/cau092.
- Goebel, Werner, Roberto Bresin, and Ichiro Fujinaga. 2014. "Perception of Touch Quality in Piano Tones." *Journal of the Acoustical Society of America* 136 (5): 2839–50. doi:10.1121/1.4896461.
- Pugin, Laurent, Andrew Hankinson, and Ichiro Fujinaga. 2012. "Digital Preservation and Access Strategies for Musical Heritage: The Swiss RISM Experience." *OCLC Systems and Services* 28 (1): 43–55.
- Rebelo, Ana, Ichiro Fujinaga, Filipe Paszkiewicz, Andre R.S. Marcal, Carlos Guedes, and Jaime S. Cardoso. 2012. "Optical Music Recognition: State-of-the-Art and Open Issues." *International Journal of Multimedia Information Retrieval* 1 (3): 173–90.
- De Roure, David, Kevin R. Page, Benjamin Fields, Tim Crawford, Ichiro Fujinaga, and J. Stephen Downie. 2011. "An E-Research Approach to Web-Scale Music Analysis." *Philosophical Transactions of Royal Society A* 369: 3300–17.
- Devaney, Johanna, Michael I. Mandel, Daniel P.W. Ellis, and Ichiro Fujinaga. 2011. "Automatically Extracting Performance Data from Recordings of Trained Singers." *Psychomusicology: Music, Mind & Brain* 21 (1–2): 108–36.
- Hankinson, Andrew, Wendy Liu, Laurent Pugin, and Ichiro Fujinaga. 2011. "Diva.js: A Continuous Document Viewing Interface." *Code4Lib Journal* 2011 (14).
- Weiss, Susan Forscher, and Ichiro Fujinaga. 2011. "New Evidence for the Origin of Kettledrums in Western Europe." *Journal of the American Music Instrument Society* 37: 5–18.

## PUBLICATIONS (cont.)

- Canazza, Sergio, Antonio Camurri, and Ichiro Fujinaga. 2010. "Ethnic Music Audio Documents: From Preservation to Fruition." *Signal Processing* 90 (4): 977–80.
- Dalitz, Christoph, Michael Droettboom, Bastian Czerwinski, and Ichiro Fujinaga. 2008. "A Comparative Study of Staff Removal Algorithms." *IEEE Transactions on Pattern Analysis and Machine Intelligence* 30 (5): 753–66. doi:10.1109/TPAMI.2007.70749.
- Fujinaga, Ichiro, Masataka Goto, and George Tzanetakis, eds. 2007. "Music Information Retrieval Based on Signal Processing." *EURASIP Journal on Advances in Signal Processing* 2007 2007. doi:10.1155/2007/86874.
- Fujinaga, Ichiro. 2005. "Distributed Digital Music Archives and Libraries." *The Journal of the Acoustical Society of America* 118: 2031.
- Riley, Jenn, and Ichiro Fujinaga. 2003. "Recommended Best Practices for Digital Image Capture of Musical Scores." *OCLC Systems and Services* 19 (2): 62–9.
- Weiss, Susan Forscher, and Ichiro Fujinaga. 2000. "A study of early music on CD-ROM." *Early Modern Literary Studies* 5.3 (4): 3.1–24.
- Choudhury, G.Sayed, Cynthia Requardt, Ichiro Fujinaga, Tim DiLauro, Elizabeth W. Brown, James W. Warner, and Brian Harrington. 2000. "Digital Workflow Management: The Lester S. Levy Digitized Collection of Sheet Music." *First Monday* 5 (6). [http://firstmonday.org/issues/issue5\\_6/choudhury/index.html](http://firstmonday.org/issues/issue5_6/choudhury/index.html).
- Yoo, Lilit, and Ichiro Fujinaga. 1998. "ZETA violin techniques: Limitations and applications." *Journal SEAMUS* 13 (2): 12–5.
- Fujinaga, Ichiro, Bruce Pennycook, and Bo Alphonse. 1991. "The Optical Music Recognition Project." *Computers in Music Research* 3: 139–42.
- Fujinaga, Ichiro, Bo Alphonse, Bruce Pennycook, and Nathalie Boisvert. 1989. "Optical Recognition of Music Notation by Computer." *Computers in Music Research* 1: 161–4.

### Refereed conference papers

- Acquillino, Alberto, Ninad Puranik, Ichiro Fujinaga, and Gary Scavone. 2023. "A Dataset and Baseline for Automated Assessment of Timbre Quality in Trumpet Sound." In *Proceedings of the International Society for Music Information Retrieval*, 684–91. Milan, Italy.
- Castellanos, Francisco J., Antonio Javier Gallego, and Ichiro Fujinaga. 2023. "A Few-Shot Neural Approach for Layout Analysis of Music Score Images." In *Proceedings of the International Society for Music Information Retrieval*, 106–13. Milan, Italy.
- Fujinaga, Ichiro, and Gabriel Vigiensoni. 2023. "Optical Music Recognition Workflow for Medieval Music Manuscripts." In *Proceedings of the 5th International Workshop on Reading Music Systems*, edited by Jorge Calvo-Zaragoza, Alexander Pacha, and Elona Shatri, 4–6. Milan, Italy. <https://doi.org/10.48550/arXiv.2311.04091>.
- Castellanos, Francisco J., Antonio Javier Gallego, and Ichiro Fujinaga. 2023. "A Preliminary Study of Few-Shot Learning for Layout Analysis of Music Scores." In *Proceedings of the 5th International Workshop on Reading Music Systems*, edited by Jorge Calvo-Zaragoza, Alexander Pacha, and Elona Shatri, 44–48. Milan, Italy. <https://doi.org/10.48550/arXiv.2311.04091>.
- Thomae, Martha E, Julie E Cumming, and Ichiro Fujinaga. 2022. "Counterpoint Error-Detection Tools for Optical Music Recognition of Renaissance Polyphonic Music." In *Proceedings of the 23rd International Society for Music Information Retrieval Conference*, 501–8. Bangaluru, India.
- De Reuse, Timothy, and Ichiro Fujinaga. 2023. "A Transformer-Based "Spellchecker" or Detecting Errors in OMR Output." In *Proceedings of the International Society for Music Information Retrieval Conference*, 789–96. Bangaluru, India.
- López, Néstor Nápoles, Mark Gotham, and Ichiro Fujinaga. 2021. "AugmentedNet: A Roman Numeral Analysis Network with Synthetic Training Examples and Additional Tonal Tasks." In *Proceedings of the International Society for Music Information Retrieval Conference*, 404–11.
- Nápoles López, Néstor, Laurent Feisthauer, Florence Levé, and Ichiro Fujinaga. 2020. "On Local Keys, Modulations, and Tonicizations: A Dataset and Methodology for Evaluating Changes of Key." In *The International Conference on Digital Libraries for Musicology*, 18–26. New York, NY.
- Ju, Yaolong, Sylvain Margot, Cory McKay, and Ichiro Fujinaga. 2020. "Automatic Chord Labelling: A Figured Bass Approach." In *7th International Conference on Digital Libraries for Musicology*, 27–31. New York, NY.
- Ju, Yaolong, Sylvain Margot, Cory McKay, Luke Dahn, and Ichiro Fujinaga. 2020. "Automatic Figured Bass Annotation Using the New Bach Chorales Figured Bass Dataset." In *Proceedings of the International Society for Music Information Retrieval Conference*, 640–46.



## PUBLICATIONS (cont.)

- Ju, Yaolong, Sylvain Margot, Cory McKay, and Ichiro Fujinaga. 2020. “Figured Bass Encodings for Bach Chorales in Various Symbolic Formats: A Case Study.” In *Proceedings of the Music Encoding Conference*, 71–73. Boston, MA. <https://hcommons.org/deposits/item/hc:31943>.
- Nápoles López, Néstor, and Ichiro Fujinaga. 2020. “Harmalysis: A Language for the Annotation of Roman Numerals in Symbolic Music Representations.” In *Proceedings of the Music Encoding Conference*, 83–85. Boston, MA. <https://hcommons.org/deposits/item/hc:31951>.
- Regimbal, Juliette, Gabriel Vigliensoni, Caitlin Hutnyk, and Ichiro Fujinaga. 2020. “IIIF-based Lyric and Neume Editor for Square-Notation Manuscripts.” In *Proceedings of the Music Encoding Conference*, 15–18. Boston, MA. <https://hcommons.org/deposits/item/hc:31975>.
- Fujinaga, Ichiro. 2019. “Single Interface for Music Score Searching and Analysis (SIMSSA) Project: Optical Music Recognition Workflow for Neume Notation.” In *Proceedings of the Computers and the Humanities Symposium (JinMonCom) 2019* (1): 281–286. Osaka, Japan: Information Processing Society of Japan. (Best Paper Award).
- de Reuse, Timothy, and Ichiro Fujinaga. 2019. “Robust Transcript Alignment on Medieval Chant Manuscripts.” In *Proceedings of the 2nd International Workshop on Reading Music Systems*. Delft, Netherlands, 21–26.
- de Reuse, Timothy, and Ichiro Fujinaga. 2019. “Pattern Clustering in Monophonic Music by Learning a Non-Linear Embedding from Human Annotations.” In *Proceedings of the 20th International Society for Music Information Retrieval Conference*. Delft, Netherlands, 761–768.
- Ju, Yaolong, Samuel Howes, Cory McKay, Nathaniel Condit-Schultz, Jorge Calvo-Zaragoza, and Ichiro Fujinaga. 2019. “An Interactive Workflow for Generating Chord Labels for Homorhythmic Music in Symbolic Formats.” In *Proceedings of the 20th International Society for Music Information Retrieval Conference*. Delft, Netherlands, 862–869.
- Gover, Matan, and Ichiro Fujinaga. 2019. “A Notation-Based Query Language for Searching in Symbolic Music.” In *Proceedings of the 6th International Workshop on Digital Libraries for Musicology*. The Hague, Netherlands: ACM, 79–83.
- Nápoles López, Néstor, Claire Arthur, and Ichiro Fujinaga. 2019. “Key-Finding Based on a Hidden Markov Model and Key Profiles.” In *Proceedings of the 6th International Workshop on Digital Libraries for Musicology*. The Hague, Netherlands: ACM, 33–37.
- Thomae, Martha E., Julie E. Cumming, and Ichiro Fujinaga. 2019. “The Mensural Scoring-Up Tool.” In *Proceedings of the 6th International Workshop on Digital Libraries for Musicology*. The Hague, Netherlands: ACM, 9–19.
- Fujinaga, Ichiro, and Gabriel Vigliensoni. 2019. “The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System.” In *Proceedings of the European Signal Processing Conference*, 330–334. A Coruña, Spain.
- McKay, Cory, Julie Cumming, and Ichiro Fujinaga. 2018. “jSymbolic 2.2: Extracting Features from Symbolic Music for Use in Musicological and MIR Research.” In *Proceedings of the 19th International Society for Music Information Retrieval Conference*, 348–354. Paris, France.
- Condit-Schultz, Nat, Yaolong Ju, and Ichiro Fujinaga. 2018. “A Flexible Approach to Automated Harmonic Analysis: Multiple Annotations of Chorales by Bach and Prætorius.” In *Proceedings of the 19th International Society for Music Information Retrieval Conference*, 66–73. Paris, France.
- Vigliensoni, Gabriel, Jorge Calvo-Zaragoza, and Ichiro Fujinaga. 2018. “An Environment for Machine Pedagogy: Learning How to Teach Computers to Read Music.” In *Joint Proceedings of the ACM Intelligent User Interface Workshops: Intelligent Music Interfaces for Listening and Creation (MILC)*. Tokyo, Japan.
- Vigliensoni, Gabriel, Jorge Calvo-Zaragoza, and Ichiro Fujinaga. 2018. “Developing an Environment for Teaching Computers to Read Music.” In *Proceedings of the 1st International Workshop on Reading Music Systems*, 27–28. Paris, France.
- Castellanos, Francisco, Jorge Calvo-Zaragoza, Gabriel Vigliensoni, and Ichiro Fujinaga. 2018. “Document Analysis of Music Score Images with Selectional Auto Encoders.” In *Proceedings of the 19th International Society for Music Information Retrieval Conference*, 256–263. Paris, France.
- Nápoles, Néstor, Gabriel Vigliensoni, and Ichiro Fujinaga. 2018. “Encoding Matters.” In *Proceedings of the 5th International Conference on Digital Libraries for Musicology*, 69–73. Paris, France.
- Cumming, Julie E., Cory McKay, Jonathan Stuchbery, and Ichiro Fujinaga. 2018. “Methodologies for Creating Symbolic Corpora of Western Music before 1600.” In *Proceedings of the International Society for Music Information Retrieval Conference*, 491–498. Paris, France.
- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. “Pixelwise Classification for Music Document Analysis.” In *Proceedings of the Seventh International Conference on Image Processing Theory, Tools and Applications (IPTA)*, 342–47. Montreal, Canada: IEEE.

## PUBLICATIONS (cont.)

- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "A Machine Learning Framework for the Categorization of Elements in Images of Musical Documents." In *Proceedings of the Third International on Technologies for Music Notation and Representation (TENOR 2017)*, 17–23. La Coruña, Spain.
- Ju, Yaolong, Nathaniel Condit-Schultz, Claire Arthur, and Ichiro Fujinaga. 2017. "Non-Chord Tone Identification Using Deep Neural Networks." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 13–6. Shanghai, China.
- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "One-Step Detection of Background, Staff Lines, and Symbols in Medieval Music Manuscripts with Convolutional Neural Networks." In *Proceedings of the International Society for Music Information Retrieval*, 724–30. Suzhou, China.
- Garfinkle, David, Claire Arthur, Peter Schubert, Julie Cumming, and Ichiro Fujinaga. 2017. "PatternFinder: Content-Based Music Retrieval with Music21." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 5–8. Shanghai, China.
- Calvo-Zaragoza, Jorge, Ké Zhang, Zeyad Saleh, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "Music Document Layout Analysis through Machine Learning and Human Feedback." In *2017 14th IAPR International Conference on Document Analysis and Recognition (ICDAR)*, 02:23–24. Tokyo, Japan. <https://doi.org/10.1109/ICDAR.2017.259>.
- Saleh, Zeyad, Ké Zhang, Jorge Calvo-Zaragoza, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "Pixel.js: Web-Based Pixel Classification Correction Platform for Ground Truth Creation." In *Proceedings of the IAPR International Conference on Document Analysis and Recognition*, 2:39–40. Kyoto, Japan.
- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "Pixel-Wise Binarization of Musical Document with Convolutional Neural Networks." In *Proceeding of the IAPR International Conference on Machine Vision Applications (MVA)*, 362–365. Nagoya.
- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2017. "Staff-Line Detection on Grayscale Images with Pixel Classification." In *Proceedings of the Iberian Conference on Pattern Recognition and Image Analysis*, 279–86. Faro, Portugal.
- Vigliensoni, Gabriel, and Ichiro Fujinaga. 2017. "The Music Listening Histories Dataset." In *Proceedings of the International Society for Music Information Retrieval*, 96–102. Suzhou, China.
- McKay, Cory, Tristan Tenglia, Julie Cumming, and Ichiro Fujinaga. 2017. "Using Statistical Feature Extraction to Distinguish the Style of Different Composers." In *Abstracts of the Annual International Medieval and Renaissance Music Conference*, 111. Prague, Czech Republic.
- Vigliensoni, Gabriel, and Ichiro Fujinaga. 2016. "Automatic Music Recommendation Systems: Do Demographic, Profiling, and Contextual Features Improve Their Performance?" In *Proceedings of the International Society for Music Information Retrieval*, 94–100. New York.
- Hankinson, Andrew, and Ichiro Fujinaga. 2016. "Cross-Institutional Music Document Search." In *Programme of the International Association of Music Libraries, Archives and Documentation Centres (IAML)*, 3. Rome.
- Hankinson, Andrew, Reiner Krämer, Julie Cumming, and Ichiro Fujinaga. 2016. "Cross-Institutional Music Document Search." In *Digital Humanities 2016: Conference Abstracts*, 215–7. Kraków.
- Laplante, Audrey, and Ichiro Fujinaga. 2016. "Digitizing Musical Scores: Challenges and Opportunities for Libraries." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 45–8. New York.
- Calvo-Zaragoza, Jorge, Gabriel Vigliensoni, and Ichiro Fujinaga. 2016. "Document Analysis for Music Scores via Machine Learning." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 37–40. New York.
- Fujinaga, Ichiro. 2015. "A Report on Digital Prosopography of Renaissance Musicians Project." In *Program and Abstract Book of the Annual Meeting of Renaissance Society of America*, 199. Berlin.
- Horwitz, Andrew, Andrew Hankinson, and Ichiro Fujinaga. 2015. "A Browse-Based MEI Editor." In *Proceeding of Music Encoding Conference (2015–2017)*, 45–46. Tours, France.
- Barbosa, Jeronimo, Cory McKay, and Ichiro Fujinaga. 2015. "Evaluating Automated Classification Techniques for Folk Music Genres from the Brazilian Northeast." In *Proceedings of the Brazilian Symposium on Computer Music*, 3–12. San Paulo.
- Weiss, Susan Forscher, and Ichiro Fujinaga. 2015. "Imagining the musical past: Creating a digital prosopography of Renaissance musicians." In *Proceedings of the Conference on Interdisciplinary Musicology*, 70–1. Shanghai.
- Laplante, Audrey, Julie E. Cumming, and Ichiro Fujinaga. 2015. "SIMSSA : Une Interface Unique Pour La Recherche et l'analyse de Millions de Partitions Musicales Numériques." In *JIM 2015 : Actes Des Journées d'informatique Musicales*. Montreal, Canada: Association Française d'Informatique Musicale.

## PUBLICATIONS (cont.)

- Fujinaga, Ichiro, and Andrew Hankinson. 2015. "Single Interface for Music Score Searching and Analysis (SIMSSA)." In *Proceedings of the International Conference on Technologies for Music Notation & Representation*, 109–115. Paris, France.
- Fujinaga, Ichiro, Gabriel Vigliensoni, and Hank Knox. 2015. "The Making of a Computerized Harpsichord for Analysis and Training." In *Abstract of the International Symposium on Performance Science*, 44–5. Kyoto.
- Bain, Jennifer, Julie Cumming, Andrew Hankinson, Kate Helsen, Debra Lacoste, Barbara Swanson, and Ichiro Fujinaga. 2015. "The Making of the Digital Salzinnes." In *Abstracts of the Annual International Medieval and Renaissance Music Conference*, 61. Brussels.
- Fujinaga, Ichiro, David Sears, Andrew Hankinson. 2014. "Big Data for the Music Perception and Cognition Community." In *Proceedings of the International Conference on Music Perception and Cognition - Asia-Pacific Society for the Cognitive Sciences of Music Joint Conference*, 263. Seoul.
- Saitis, Charalampos, Andrew Hankinson, and Ichiro Fujinaga. 2014. "Correcting Large-Scale OMR Data with Crowdsourcing." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 88–90. London.
- Fujinaga, Ichiro. 2014. "Digital Prosopography of Renaissance Musicians: A Progress Report." In *Program and Abstract Book of the Annual Meeting of Renaissance Society of America*, 197. New York.
- Vigliensoni, Gabriel, and Ichiro Fujinaga. 2014. "Identifying Time Zones in a Large Dataset of Music Listening Logs." In *Proceedings of the International Workshop on Social Media Retrieval and Analysis*, 27–32. New York.
- Fujinaga, Ichiro, Andrew Hankinson, and Julie Cumming. 2014. "Introduction to SIMSSA (Single Interface for Music Score Searching and Analysis)." In *Proceedings of the International Workshop on Digital Libraries for Musicology*, 100–102. London, UK.
- Siedenburg, Kai, Ichiro Fujinaga, and Stephen McAdams. 2014. "Technologies of Timbre: On Audio Features and Evaluation in Interdisciplinary Music Research." In *Proceedings of the Conference on Interdisciplinary Musicology*, 208–209. Berlin.
- Cohen, Annabel J., Ichiro Fujinaga, Nyssim Lefford, Theresa Leonard, George Tzanetakis, and Coralie Vincent. 2013. "A Digital Library to Advance Interdisciplinary Research in Singing." In *Proceedings of the International Congresses on Acoustics. The Journal of the Acoustical Society of America*, 133:3591. Montreal.
- Burgoyne, John Ashley, Jonathan Wild, and Ichiro Fujinaga. 2013. "Compositional Data Analysis of Harmonic Structures in Popular Music (Lecture Notes in Artificial Intelligence 7937)." In *Proceedings of the International Conference on Mathematics and Computation in Music*, 52–63. Montreal.
- Devaney, Johanna, Jason Hockman, Jonathan Wild, Peter Schubert, and Ichiro Fujinaga. 2013. "Diatonic Semitone Tuning in Two-Part Singing." In *Conference Program of the Society of Music Perception and Cognition Conference*, 43. Toronto.
- Vigliensoni, Gabriel, John Ashley Burgoyne, and Ichiro Fujinaga. 2013. "MusicBrainz for the World: The Chilean Experience." In *Proceedings of the International Society for Music Information Retrieval Conference*, 131–136. Curitiba.
- Vigliensoni, Gabriel, Gregory Burlet, and Ichiro Fujinaga. 2013. "Optical Measure Recognition in Common Music Notation." In *Proceedings of the International Society for Music Information Retrieval Conference*, 125–130. Curitiba.
- Burlet, Gregory, and Ichiro Fujinaga. 2013. "Robotaba Guitar Tablature Transcription Framework." In *Proceedings of the International Society for Music Information Retrieval Conference*, 517–522. Curitiba.
- Fujinaga, Ichiro, Andrew Hankinson. 2013. "SIMSSA: Towards Full-Music Search over a Large Collection of Musical Scores." In *Conference Abstracts of Digital Humanities*, 187–189. Lincoln.
- Burlet, Gregory, Marcelo Wanderley, and Ichiro Fujinaga. 2013. "Stompboxes: Kicking the Habit." In *Proceedings of the New Interfaces for Musical Expression Conference*, 41–4. Daejeon, Korea.
- Devaney, Johanna, Michael I. Mandel, and Ichiro Fujinaga. 2012. "A Study of Intonation in Three-Part Singing Using the Automatic Music Performance Analysis and Comparison Toolkit (AMPACT)." In *Proceedings of the International Society for Music Information Retrieval Conference*, 511–6. Curitiba.
- Hankinson, Andrew, John Ashley Burgoyne, Gabriel Vigliensoni, and Ichiro Fujinaga. 2012. "Creating a Large-Scale Searchable Digital Collection from Printed Music Materials." In *Proceedings of the Advances in Music Information Research*, 903–8. Lyon.
- Hankinson, Andrew, John Ashley Burgoyne, Gabriel Vigliensoni, Alastair Porter, Jessica Thompson, Wendy Liu, Remi Chiu, and Ichiro Fujinaga. 2012. "Digital Document Image Retrieval Using Optical Music Recognition." In *Proceedings of the International Society for Music Information Retrieval Conference*, 577–82. Porto.

## PUBLICATIONS (cont.)

- Fujinaga, Ichiro, and Susan Weiss. 2012. "Digital Prosopography of Renaissance Musicians: Discovery of Social and Professional Network." In *Renaissance Society of America Annual Meeting Program and Abstract Book*, 357. Washington.
- Hankinson, Andrew, Wendy Liu, Laurent Pugin, and Ichiro Fujinaga. 2012. "Diva: A Web-Based High-Resolution Digital Document Viewer." In *Proceedings of the Theory and Practice of Digital Libraries Conference*, 455–60. Paphos.
- Burlet, Gregory, Alastair Porter, Andrew Hankinson, and Ichiro Fujinaga. 2012. "Neon.js: Neume Editor Online." In *Proceedings of the International Society for Music Information Retrieval Conference*, 121–6. Porto.
- Hockman, Jason A., Matthew E.P. Davies, and Ichiro Fujinaga. 2012. "One in the Jungle: Downbeat Detection in Hardcore, Jungle, and Drum and Bass." In *Proceedings of the International Society for Music Information Retrieval Conference*, 169–74. Porto.
- Burgoyne, John Ashley, Jonathan Wild, and Ichiro Fujinaga. 2011. "An Expert Ground Truth Set for Audio Chord Recognition and Music Analysis." In *Proceedings of the International Society for Music Information Retrieval Conference*, 633–8. Miami.
- Vigliensoni, Gabriel, John Ashley Burgoyne, Andrew Hankinson, and Ichiro Fujinaga. 2011. "Automatic Pitch Detection in Printed Square Notation." In *Proceedings of the International Society for Music Information Retrieval Conference*, 423–8. Miami.
- Devaney, Johanna, Michael I. Mandel, and Ichiro Fujinaga. 2011. "Characterizing Singing Voice Fundamental Frequency Trajectories." In *Proceedings of the Workshop on Applications of Signal Processing to Audio and Acoustics*, 73–6. New Paltz.
- Smith, Jordan B. L., John Ashley Burgoyne, Ichiro Fujinaga, David De Roure, and J. Stephen Downie. 2011. "Design and Creation of a Large-Scale Database of Structural Annotations." In *Proceedings of the International Society for Music Information Retrieval Conference*, 555–60. Miami.
- Hockman, Jason A., David M. Weigl, Catherine Guastavino, and Ichiro Fujinaga. 2011. "Discrimination between Phonograph Playback Systems." In *Audio Engineering Society 131st Convention*, 131. New York.
- Ehmann, Andreas, Mert Bay, J. Stephen Downie, Ichiro Fujinaga, and David De Roure. 2011a. "Exploiting Music Structures for Digital Libraries." In *Proceedings of the Joint Conference on Digital Libraries*, 479–80. Ottawa.
- Devaney, Johanna, Jonathan Wild, and Ichiro Fujinaga. 2011. "Intonation in Solo Vocal Performance: A Study of Semitone and Whole Tone Tuning in Undergraduate and Professional Sopranos." In *Proceedings of the International Symposium on Performance Science*, 219–24. Toronto.
- Hankinson, Andrew, Perry Roland, and Ichiro Fujinaga. 2011. "MEI as a Document Encoding Framework." In *Proceedings of the International Society for Music Information Retrieval Conference*, 293–8. Miami.
- Ehmann, Andreas, Mert Bay, J. Stephen Downie, Ichiro Fujinaga, and David De Roure. 2011b. "Music Structure Segmentation Algorithm Evaluation: Expanding on MIREX 2010 Analysis and Datasets." In *Proceedings of the International Society for Music Information Retrieval Conference*, 561–6. Miami.
- Knight, Trevor, Finn Upham, and Ichiro Fujinaga. 2011. "The Potential for Automatic Assessment of Trumpet Tone Quality." In *Proceedings of the International Society for Music Information Retrieval Conference*, 573–8. Miami.
- Li, Zhonghua, Qiaoliang Xiang, Jason Hockman, Jianqing Yang, Yu Yi, Ichiro Fujinaga, and Ye Wang. 2010. "A Music Search Engine for Therapeutic Gait Training." In *Proceedings of the International Conference on Multimedia*, 627–30. Firenze.
- Hankinson, Andrew, and Ichiro Fujinaga. 2010. "An Interchange Format for Optical Music Recognition Applications." In *Proceedings of the International Society for Music Information Retrieval Conference*, 51–6. Utrecht.
- Angeles, Bruno, Cory McKay, and Ichiro Fujinaga. 2010. "Discovering Metadata Inconsistencies." In *Proceedings of the International Society for Music Information Retrieval Conference*, 195–200. Utrecht.
- McKay, Cory, John Ashley Burgoyne, Jason Hockman, Jordan Smith, Gabriel Vigliensoni, and Ichiro Fujinaga. 2010. "Evaluating the Performance of Lyrical Features Relative to and in Combination with Audio, Symbolic and Cultural Features." In *Proceedings of the International Society for Music Information Retrieval Conference*, 213–8. Utrecht.
- Devaney, Johanna, Jonathan Wild, Peter Schubert, and Ichiro Fujinaga. 2010. "Exploring the Relationship between Voice Leading, Harmony, and Intonation in a Cappella SATB Vocal Ensembles." In *Proceedings of the International Conference on Music Perception and Cognition*, 315–6. Seattle.
- Hockman, Jason, and Ichiro Fujinaga. 2010. "Fast vs Slow: Learning Tempo Octaves from User Data." In *Proceedings of the International Society for Music Information Retrieval Conference*, 231–6. Utrecht.

## PUBLICATIONS (cont.)

- McKay, Cory, and Ichiro Fujinaga. 2010. "Improving Automatic Music Classification Performance by Extracting Features from Different Types of Data." In *Proceedings of the ACM International Conference on Multimedia Information Retrieval*, 257–66. New York.
- De Roure, David, J. Stephen Downie, and Ichiro Fujinaga. 2010. "SALAMI: Structural Analysis of Large Amounts of Music Information." In *Proceedings of the UK E-Science All Hands Meeting*. Cardiff.
- Vigliensoni, Gabriel, Cory McKay, and Ichiro Fujinaga. 2010. "Using JWebMiner 2.0 to Improve Music Classification Performance by Combining Different Types of Features Mined from the Web." In *Proceedings of the International Society for Music Information Retrieval Conference*, 607–12. Utrecht.
- Ouyang, Yue, John Ashley Burgoyne, Laurent Pugin, and Ichiro Fujinaga. 2009. "A Robust Border Detection Algorithm with Application to Medieval Music Manuscripts." In *Proceedings of the International Computer Music Conference*, 101–4. Montreal.
- Thompson, Jessica, Cory McKay, John Ashley Burgoyne, and Ichiro Fujinaga. 2009. "Additions and Improvements to the ACE 2.0 Music Classifier." In *Proceedings of the International Society for Music Information Retrieval Conference*, 435–40. Kobe.
- Pugin, Laurent, Andrew Hankinson, and Ichiro Fujinaga. 2009. "Building a Comprehensive Digital Library for Nineteenth-Century Swiss Composers." In *International Association of Music Libraries Conference*. Amsterdam.
- Hankinson, Andrew, Laurent Pugin, and Ichiro Fujinaga. 2009. "Interfaces for Document Representation in Digital Music Libraries." In *Proceedings of the International Society for Music Information Retrieval Conference*, 39–44. Kobe.
- McKay, Cory, and Ichiro Fujinaga. 2009. "JMIR: Tools for Automatic Music Classification." In *Proceedings of the International Computer Music Conference*, 65–8. Montreal.
- Burgoyne, John Ashley, Yue Ouyang, Tristan Himmelman, Johanna Devaney, Laurent Pugin, and Ichiro Fujinaga. 2009. "Lyric Extraction and Recognition on Digital Images of Early Music Sources." In *Proceedings of the International Society for Music Information Retrieval Conference*, 723–8. Kobe.
- Li, Beinan, and Ichiro Fujinaga. 2009. "Optical Audio Reconstruction for Stereo Phonograph Records Using White Light Interferometry." In *Proceedings of the International Society for Music Information Retrieval Conference*, 627–32. Kobe.
- Hockman, Jason, Marcelo Wanderley, and Ichiro Fujinaga. 2009. "Real-Time Phase Vocoder Manipulation by Runner's Pace." In *Proceedings of the New Interfaces for Musical Expression Conference*, 90–3. Pittsburgh.
- McKay, Cory, John Ashley Burgoyne, Jessica Thompson, and Ichiro Fujinaga. 2009. "Using ACE XML 2.0 to Store and Share Feature, Instance and Class Data for Musical Classification." In *Proceedings of the International Society for Music Information Retrieval Conference*, 303–8. Kobe.
- Fujinaga, Ichiro, and Cory McKay. 2008. "ACE: Autonomous Classification Engine." In *Proceedings of the International Conference on Music Perception and Cognition*. Sapporo.
- Devaney, Johanna, and Ichiro Fujinaga. 2008. "Assessing the Role of Sensory Consonance in Trained Musicians' Tuning Preferences." In *Proceedings of the International Conference on Music Perception and Cognition*. Sapporo: CD ROM.
- McKay, Cory, and Ichiro Fujinaga. 2008. "Combining Features Extracted from Audio, Symbolic and Cultural Sources." In *Proceedings of the International Conference on Music Information Retrieval*, 597–602. Philadelphia.
- Goebel, Werner, and Ichiro Fujinaga. 2008. "Do Key-Bottom Sounds Distinguish Piano Tones?" In *Proceedings of the International Conference on Music Perception and Cognition*, 292. Sapporo.
- Burgoyne, John Ashley, Johanna Devaney, Laurent Pugin, and Ichiro Fujinaga. 2008. "Enhanced Bleedthrough Correction for Early Music Documents with Recto-Verso Registration." In *Proceedings of the International Conference on Music Information Retrieval*, 407–12. Philadelphia.
- Pugin, Laurent, Jason Hockman, John Ashley Burgoyne, and Ichiro Fujinaga. 2008. "Gamera versus Aruspix: Two Optical Music Recognition Approaches." In *Proceedings of the International Conference on Music Information Retrieval*, 419–24. Philadelphia.
- Burgoyne, John Ashley, Laurent Pugin, Greg Eustace, and Ichiro Fujinaga. 2007. "A Comparative Survey of Image Binarisation Algorithms for Optical Recognition on Degraded Musical Sources." In *Proceedings of International Conference on Music Information Retrieval*, 509–12. Vienna.
- Burgoyne, John Ashley, Laurent Pugin, Corey Kereliuk, and Ichiro Fujinaga. 2007. "A Cross-Validated Study of Modelling Strategies for Automatic Chord Recognition in Audio." In *Proceedings of International Conference on Music Information Retrieval*, 251–4. Vienna.
- Li, Beinan, Simon de Leon, and Ichiro Fujinaga. 2007. "Alternative Digitization Approach for Stereo Phonograph Records Using Optical Audio Reconstruction." In *Proceedings of International Conference on Music Information Retrieval*, 165–6. Vienna.

## PUBLICATIONS (cont.)

- Pugin, Laurent, John Ashley Burgoyne, and Ichiro Fujinaga. 2007. "Goal-Directed Evaluation for the Improvement of Optical Music Recognition of Early Music Prints." In *Proceedings of the Joint Conference on Digital Libraries*, 303–4. Vancouver.
- McKay, Cory, and Ichiro Fujinaga. 2007. "JWebMiner: A Web-Based Feature Extractor." In *Proceedings of the International Conference on Music Information Retrieval*, 113–4. Vienna.
- Pugin, Laurent, John Ashley Burgoyne, and Ichiro Fujinaga. 2007b. "MAP Adaptation to Improve Optical Music Recognition of Early Music Documents Using Hidden Markov Models." In *Proceedings of International Conference on Music Information Retrieval*, 513–6. Vienna.
- Lai, Catherine, Ichiro Fujinaga, David Descheneau, Michael Frishkopf, Jenn Riley, Joseph Hafner, and Brian McMillan. 2007. "Metadata Infrastructure of Sound Recordings." In *Proceedings of International Conference on Music Information Retrieval*, 157–8. Vienna.
- Pugin, Laurent, John Ashley Burgoyne, and Ichiro Fujinaga. 2007. "Reducing Costs for Digitising Early Music with Dynamic Adaptation." In *Proceedings of the European Conference on Digital Libraries*, 471–4. Budapest.
- McKay, Cory, Daniel McEnnis, and Ichiro Fujinaga. 2006. "A Large Publicly Accessible Prototype Audio Database for Music Research." In *Proceedings of the International Conference on Music Information Retrieval*, 160–3. Victoria.
- Lai, Catherine, and Ichiro Fujinaga. 2006a. "Archiving David Edelberg's Handel LP Collection: Production Workflow and Issues in Data Acquisition." In *Proceedings of the Archiving Conference*, 40–4. Ottawa.
- . 2006b. "Data Dictionary: Metadata for Phonograph Records." In *Proceedings of the International Conference on Music Information Retrieval*, 1–6. Victoria.
- Li, Beinan, John Ashley Burgoyne, and Ichiro Fujinaga. 2006. "Extending Audacity as a Ground-Truth Annotation Tool." In *Proceedings of the International Conference on Music Information Retrieval*, 379–80. Victoria.
- Fiebrink, Rebecca, and Ichiro Fujinaga. 2006. "Feature Selection Pitfalls and Music Classification." In *Proceedings of the International Conference on Music Information Retrieval*, 340–1. Victoria.
- McEnnis, Daniel, Cory McKay, and Ichiro Fujinaga. 2006a. "JAudio: Additions and Improvements." In *Proceedings of the International Conference on Music Information Retrieval*, 385–6. Victoria, BC.
- McKay, Cory, and Ichiro Fujinaga. 2006a. "JSymbolic: A Feature Extractor for MIDI Files." In *Proceedings of the International Computer Music Conference*, 302–5. New Orleans.
- Sinclair, Stephen, Michael Droettboom, and Ichiro Fujinaga. 2006. "Lilypond for PyScore: Approaching a Universal Translator for Music Notation." In *Proceedings of the International Conference on Music Information Retrieval*, 387–8. Victoria, BC.
- Lai, Catherine, and Ichiro Fujinaga. 2006c. "Metadata Data Dictionary for Analog Sound Recordings." In *Proceedings of the Joint Conference on Digital Libraries*. Chapel Hill.
- McKay, Cory, and Ichiro Fujinaga. 2006b. "Musical Genre Classification: Is It Worth Pursuing and How Can It Be Improved?" In *Proceedings of the International Conference on Music Information*, 101–6. Victoria.
- Fujinaga, Ichiro, and Daniel McEnnis. 2006. "On-Demand Metadata Extraction Network (OMEN)." In *Proceedings of the Joint Conference on Digital Libraries*, 346. Chapel Hill.
- McEnnis, Daniel, Cory McKay, and Ichiro Fujinaga. 2006b. "Overview of OMEN." In *Proceedings of the International Conference on Music Information Retrieval*, 7–12. Victoria.
- Li, Beinan, Catherine Lai, and Ichiro Fujinaga. 2006. "Technical Issues in Digitization of Large Online Collections of Phonograph Records." In *Proceedings of the Archiving Conference*, 151–5. Ottawa.
- McKay, Cory, Rebecca Fiebrink, Daniel McEnnis, Beinan Li, and Ichiro Fujinaga. 2005. "ACE: A Framework for Optimizing Music Classification." In *Proceedings of the International Conference on Music Information Retrieval*, 42–9. London.
- McKay, Cory, Daniel McEnnis, Rebecca Fiebrink, and Ichiro Fujinaga. 2005. "ACE: A General-Purpose Classification Ensemble Optimization Framework." In *Proceedings of the International Computer Music Conference*, 161–4. Barcelona.
- McKay, Cory, and Ichiro Fujinaga. 2005. "Automatic music classification and the importance of instrument identification." In *Proceedings of the Conference on Interdisciplinary Musicology*. Montreal.
- Sinyor, Elliot, Cory McKay, Rebecca Fiebrink, Daniel McEnnis, and Ichiro Fujinaga. 2005. "Beatbox Classification Using ACE." In *Proceedings of the International Conference on Music Information Retrieval*, 672–5. London.
- Fiebrink, Rebecca, Cory McKay, and Ichiro Fujinaga. 2005. "Combining D2K and JGAP for Efficient Feature Weighting for Classification Tasks in Music Information Retrieval." In *Proceedings of the International Conference on Music Information Retrieval*, 510–3. London.

## PUBLICATIONS (cont.)

- McEnnis, Daniel, Cory McKay, Ichiro Fujinaga, and Phillippe Depalle. 2005. "Feature Extraction: An Extensible Library Approach." In *Proceedings of the International Conference on Music Information Retrieval*, 600–3. London.
- Lai, Catherine, Ichiro Fujinaga, and Cynthia Leive. 2005a. "Metadata for Phonograph Records: Facilitating New Forms of Use and Access to Analog Sound Recordings." In *Proceedings of the Joint Conference on Digital Libraries*. Denver: 385.
- Lai, Catherine, Beinan Li, and Ichiro Fujinaga. 2005. "Preservation Digitization of David Edelberg's Handel LP Collection: A Pilot Project." In *Proceedings of the International Conference on Music Information Retrieval*, 570–5. London.
- Lai, Catherine, Ichiro Fujinaga, and Cynthia Leive. 2005b. "The Challenges in Developing Digital Collections of Phonograph Records." In *Proceedings of the Joint Conference on Digital Libraries*, 332–3. Denver.
- Young, Diana, and Ichiro Fujinaga. 2004. "Aobachi: A New Interface for Japanese Drumming." In *Proceedings of the International Conference on New Interfaces for Musical Expression*, 23–6. Montreal.
- McKay, Cory, and Ichiro Fujinaga. 2004. "Automatic Genre Classification Using Large High-Level Musical Feature Sets." In *Proceedings of the International Conference on Music Information Retrieval*, 525–30. Barcelona.
- Tindale, Adam, Ajay Kapur, George Tzanetakis, and Ichiro Fujinaga. 2004a. "Retrieval of Percussion Gestures Using Timbre Classification Techniques." In *Proceedings of 5th International Conference on Music Information Retrieval*, 541–5. Barcelona.
- Droettboom, Micheal, and Ichiro Fujinaga. 2004. "Symbol-Level Groundtruthing Environment for OMR." In *Proceedings of the 5th International Conference on Music Information Retrieval*, 497–500. Barcelona.
- Tindale, Adam, Ajay Kapur, George Tzanetakis, and Ichiro Fujinaga. 2004b. "Towards Timbre Recognition of Percussive Sounds." In *Proceedings of the International Computer Music Conference*, 592–5. Miami.
- Zadel, Mark, and Ichiro Fujinaga. 2004. "Web Services for Music Information Retrieval." In *Proceedings of the 5th International Conference on Music Information Retrieval*, 478–83. Barcelona.
- Droettboom, Micheal, Karl MacMillan, and Ichiro Fujinaga. 2003. "The Gamera Framework for Building Custom Recognition Systems." In *Proceedings of the Symposium on Document Image Understanding Technologies*, 275–86. Greenbelt, MD.
- Fujinaga, Ichiro, and Jenn Riley. 2002. "Digital Image Capture of Musical Scores." In *Proceedings of the International Conference on Music Information Retrieval*, 261–2.
- MacMillan, Karl, Michael Droettboom, and Ichiro Fujinaga. 2002a. "Gamera: A Python-Based Toolkit for Structured Document Recognition." In *Proceedings of Tenth International Python Conference*, 25–40. Alexandria.
- MacMillan, Karl, Michael Droettboom, and Ichiro Fujinaga. 2002b. "Gamera: Optical Music Recognition in a New Shell." In *Proceedings of the International Computer Music Conference*, 482–5. Göteborg.
- Srinivasan, Asha, David Sullivan, and Ichiro Fujinaga. 2002. "Recognition of Isolated Instrument by Conservatory Students." In *Proceedings of the International Conference on Music Perception and Cognition*, 720–3. Sydney.
- Droettboom, Micheal, Ichiro Fujinaga, G. Sayeed Choudhury Karl MacMillan, Tim DiLauro, Mark Patton, and Teal Anderson. 2002. "Using Gamera Framework for the Recognition of Cultural Heritage Materials." In *Proceedings of the Joint Conference on Digital Libraries*, 11–7. Portland.
- MacMillan, Karl, Michael Droettboom, and Ichiro Fujinaga. 2001a. "A System to Port Unit Generators between Audio DSP Systems." In *Proceedings of the International Computer Music Conference*, 103–6. Havana.
- Fujinaga, Ichiro. 2001. "An Adaptive Optical Music Recognition." In *Proceedings of the 16th International Congress of the International Musicological Society*, edited by David Greer, 666. Oxford: Oxford University Press.
- MacMillan, Karl, Michael Droettboom, and Ichiro Fujinaga. 2001b. "Audio Latency Measurements of Desktop Operating Systems." In *Proceedings of the International Computer Music Conference*. Havana, 259–62. Cuba.
- Bainbridge, David, Gerry Bernbom, Mary Wallace Davidson, Andrew P. Dillon, Matthew Dovey, John W. Dunn, Michael Fingerhut, Ichiro Fujinaga, and Eric J. Issacson. 2001. "Digital Music Libraries: Research and Development." In *Proceedings of the Joint Conference on Digital Libraries*, 446–8. Roanoke.
- Droettboom, Micheal, Ichiro Fujinaga, Karl MacMillan, Mark Patton, G. Sayeed Choudhury James Warner, and Tim DiLauro. 2001. "Expressive and Efficient Retrieval of Symbolic Musical Data." In *Proceedings of the International Symposium on Music Information Retrieval*, 173–8. Bloomington.
- MacMillan, Karl, Michael Droettboom, and Ichiro Fujinaga. 2001c. "Gamera: A Structured Document Recognition Application Development Environment." In *Proceedings of the International Symposium on Music Information Retrieval*, 15–6. Bloomington.

## PUBLICATIONS (cont.)

- Droettboom, Micheal, and Ichiro Fujinaga. 2001. "Interpreting the Semantics of Music Notation Using an Extensible and Object-Oriented System." In *Proceedings of the Ninth International Python Conference*, 71–85. Long Beach.
- Fujinaga, Ichiro, and Karl MacMillan. 2000. "Realtime Recognition of Orchestral Instruments." In *Proceedings of the International Computer Music Conference*, 141–3. Berlin.
- Choudhury, G. Sayeed, Tim DiLauro, Michael Droettboom, Ichiro Fujinaga, Brian Harrington, and Karl MacMillan. 2000. "Optical Music Recognition System within a Large-Scale Digitization Project." In *Proceedings of the International Symposium on Music Information Retrieval*, 1–6. Plymouth, MA.
- Yoo, Lilit, and Ichiro Fujinaga. 1999. "A Comparative Latency Study of Hardware and Software Pitch-Trackers." In *Proceedings of the International Computer Music Conference*, 36–9. Beijing.
- Young, John P., and Ichiro Fujinaga. 1999. "Piano Master Classes via the Internet." In *Proceedings of the International Computer Music Conference*, 135–7. Beijing.
- Fraser, Angel, and Ichiro Fujinaga. 1999. "Toward Realtime Recognition of Acoustic Musical Instruments." In *Proceedings of the International Computer Music Conference*, 175–7. Beijing.
- Fujinaga, Ichiro, Stephan Moore, and David S. Sullivan. 1998. "Implementation of Exemplar-Based Learning Model for Music Cognition." In *Proceedings of the International Conference on Music Perception and Cognition*, 171–9. Seoul.
- Fujinaga, Ichiro. 1998. "Machine Recognition of Timbre Using Steady-State Tone of Acoustic Musical Instruments." In *Proceedings of the International Computer Music Conference*, 207–10. Banff.
- Sullivan, David, Stephan Moore, and Ichiro Fujinaga. 1998. "Real-Time Software Synthesis for Psychoacoustic Experiments." In *Proceedings of the International Conference on Music Perception and Cognition*, 151–7. Seoul.
- Boyle, McGregor, Ichiro Fujinaga, and Geoffrey Wright. 1998. "The Computer Music Department at the Peabody Conservatory of the Johns Hopkins University." In *Proceedings of the International Computer Music Conference*, 315–9. Banff.
- Yoo, Lilit, Stephan Moore, David Sullivan, and Ichiro Fujinaga. 1998. "The Effect of Vibrato on Response Time in Determining the Pitch Relationship of Violin Tones." In *Proceedings of the International Conference on Music Perception and Cognition*, 477–81. Seoul.
- Fujinaga, Ichiro. 1997. "Adaptive Optical Music Recognition." In *Abstract of the International Musicological Society Meeting*, 77. London.
- Fujinaga, Ichiro. 1996. "Exemplar-Based Learning in Adaptive Optical Music Recognition System." In *Proceedings of the International Computer Music Conference*, 55–6. Hong Kong.
- Tobey, Forrest, and Ichiro Fujinaga. 1996a. "Extracting Musical Expression from Conducting Gestures." In *Proceedings of the International Conference on Music Perception and Cognition*, 259–62. Hong Kong.
- Tobey, Forrest, and Ichiro Fujinaga. 1996b. "Extraction of Conducting Gestures in 3D Space." In *Proceedings of the International Computer Music Conference*, 305–7. Hong Kong.
- Hoshishiba, Takayuki, Susumu Horiguchi, and Ichiro Fujinaga. 1996. "Study of Expression and Individuality in Music Performance Using Normative Data Derived from MIDI Recordings of Piano Music." In *Proceedings of the International Conference on Music Perception and Cognition*, 465–70. Montreal.
- Fujinaga, Ichiro. 1995. "Exemplar-Based Music Structure Recognition (Workshop Notes)." Montreal: International Joint Conference on Artificial Intelligence.
- Fujinaga, Ichiro, and Jason Vantomme. 1994. "Genetic Algorithms as a Method for Granular Synthesis Regulation." In *Proceedings of the International Computer Music Conference*, 138–41. Aarhus.
- Fujinaga, Ichiro. 1993. "An Optical Music Recognition System Which Learns." In *Proceedings Volume 1785 Enabling Technologies for High-Bandwidth Applications*, edited by Jacek Maitan, 210–7. Boston.
- Fujinaga, Ichiro, Bo Alphonse, Bruce Pennycook, and Glendon Diener. 1992. "Interactive Optical Music Recognition." In *Proceedings of the International Computer Music Conference*, 117–20. San José.
- Fujinaga, Ichiro, Bo Alphonse, Bruce Pennycook, and Kharim Hogan. 1991. "Optical Music Recognition: Progress Report." In *Proceedings of the International Computer Music Conference*, 66–73. Montreal.
- Fujinaga, Ichiro, Bruce Pennycook, and Bo Alphonse. 1989. "Computer Recognition of Musical Notation." In *Proceedings of the International Conference on Music Perception and Cognition*, 87–90. Kyoto.
- Fujinaga, Ichiro, Bo Alphonse, and Bruce Pennycook. 1989. "Issues in the Design of an Optical Music Recognition System." In *Proceedings of the International Computer Music Conference*, 113–6. Columbus, OH.
- Alphonse, Bo, Bruce Pennycook, Ichiro Fujinaga, and Nathalie Boisvert. 1988. "Optical Music Recognition: A Progress Report." In *Proceedings of the Small Computers in the Arts*, 8–12. Philadelphia.

## Other publications



## PUBLICATIONS (cont.)

- Devaney, Johanna, Jonathan Wild, and Ichiro Fujinaga. 2011. "Intonation in Solo Vocal Performance: A Study of Semitone and Whole Tone Tuning in Undergraduate and Professional Sopranos." In *Proceedings of the International Symposium on Performance Science*, 219–24. Toronto.
- McKay, Cory, and Ichiro Fujinaga. 2007. "Style-Independent Computer-Assisted Exploratory Analysis of Large Music Collection." *Journal of Interdisciplinary Music Studies* 1 (1): 63–85.
- Choudhury, G. Sayeed, Tim DiLauro, Robert Ferguson, Michael Droettboom, and Ichiro Fujinaga. 2006. "Document Recognition for a Million Books." *D-Lib Magazine* 12 (3).  
<http://www.dlib.org/dlib/march06/choudhury/03choudhury.html>.
- Choudhury, G. Sayeed, Tim DiLauro, Michael Droettboom, Ichiro Fujinaga, and Karl MacMillan. 2001. "Strike up the Score: Deriving Searchable and Playable Digital Formats from Sheet Music." *D-Lib Magazine* 7 (2): 378.
- Fujinaga, Ichiro. 1996. "Adaptive Optical Music Recognition." PhD Dissertation, Montreal: McGill University.
- Hoshishiba, Takayuki, Susumu Horiguchi, and Ichiro Fujinaga. 1995. "Computer Performance of Piano Music with Normative Performance Data." IS-RR-95-0014I.
- Fujinaga, Ichiro. 1991. "Automatic Recognition and Related Topics." In *Computing in Musicology*, edited by Walter B. Hewlett and Eleanor Selfridge-Field, 7: 107–117.
- Fujinaga, Ichiro. 1988. "Optical Music Recognition Using Projections." Master's Thesis, Montreal: McGill University.

## INVITED TALKS

### Invited Talks

- Joint Conference on MEC and TEI Conference, Paderborn University, Paderborn, Austria, 8 September 2023. *Brainstorming on the Encoding of Eastern Neumes: Middle-Byzantine Notation as a Case-Study* with Elsa de Luca and Maria Alexandru. Refereed.
- Joint Conference on MEC and TEI Conference, Paderborn University, Paderborn, Austria, 8 September 2023. *Visual or Symbolic? Best Practices for Encoding Neumes* with Elsa de Luca, Inga Behrendt, Kate Helsen, and Stefan Morent. Refereed.
- Joint Conference on MEC and TEI Conference, Paderborn University, Paderborn, Austria, 8 September 2023. *Updates and Outcomes from the Guatemalan Digitization and Encoding Project* with Martha E. Thomae, and Julie Cumming. Refereed.
- Hakodate Mirai University, Tokyo. 23 January 2023. Invited Speaker. *Optical Music Recognition Workflow for Neume Notation and its Encoding & The Art of Teaching Computers*
- Keio University, Tokyo. 17 June 2022. Invited Speaker. *Optical Music Recognition Workflow for <sup>[L]</sup><sub>[SEP]</sub>Neume Notation and its Encoding & The Art of Teaching Computers*
- Music Encoding Conference, Dalhousie University, 21 May 2022. Invited Keynote Speaker. *Optical Music Recognition Workflow for Neume Notation and its Encoding & The Art of Teaching Computers*
- Music Encoding Conference (online), Tufts University, 27 May 2020. *IIIF-based Lyric and Neume Editor for Square-notation Manuscripts*, with Juliette Regimbal, Gabriel Vigliensoni, and Caitlin Hutnyk. Refereed.
- Music Encoding Conference (online), Tufts University, 28 May 2020. *Figured Bass Encodings for Bach Chorales in Various Symbolic Formats: A Case Study*, with Yaolong Ju, Sylvain Margot, and Cory McKay. Refereed.
- Music Encoding Conference (online), Tufts University, 28 May 2020. *Harmalysis: A Language for the Annotation of Roman Numerals in Symbolic Music Representations*, with Néstor Nápoles López. Refereed.
- International Conference on Digital Libraries for Musicology, The Hague, Netherlands, 9 November 2019. *SIMSSA DB: Symbolic Music Discovery and Search*, with Emily Hopkins, Yaolong Ju, Gustavo Polins Pedro, Cory McKay, and Julie Cumming. Refereed (poster).
- Canadian Workshop on Linked Open Data for Cultural Scholarship, Banff, AB, 14 September 2019. *Single Interface for Music Score Searching and Analysis (SIMSSA) Project and Linked Open Data*.
- Digital Humanities Conference, Utrecht, Netherlands, 11 July 2019. *Lessons Learned in a Large-Scale Project to Digitize and Computationally Analyze Musical Scores*, with Cory McKay and Julie Cumming. Refereed.
- Digital Humanities Conference, Utrecht, Netherlands, 10 July 2019. *Taking Digital Humanities to Guatemala, a Case Study in the Preservation of Colonial Musical Heritage*, with Martha E. Thomae and Julie Cumming. Refereed.
- Digital Humanities Conference, Utrecht, Netherlands, 10 July 2019. *Overcoming the Challenges of Optical Music Recognition of Early Music with Machine Learning*, with Gabriel Vigliensoni, Alex Daigle, Eric Liu, Jorge Calvo-Zaragoza, Juliette Regimbal, Minh Anh Nguyen, Noah Baxter, and Zoé McLennan. Refereed.
- International Musicological Society (IMS) Digital Musicology Study Group Workshop, Utrecht, Netherlands, 9 July 2019. *Update on the SIMSSA Project*.
- TU Wien, Vienna, Austria, 4 July 2019. Invited Speaker. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System*.
- Music Encoding Conference, University of Vienna, Vienna, Austria, 31 May 2019. *From Image to Encoding: Full Optical Music Recognition of Medieval and Renaissance Music*, with Gabriel Vigliensoni, Alex Daigle, Eric Liu, Jorge Calvo-Zaragoza, Juliette Regimbal, Minh Anh Nguyen, Noah Baxter, and Zoé McLennan. Refereed.
- Music Encoding Conference, University of Vienna, Vienna, Austria, 31 May 2019. *Neon2: A Verovio-based Square-Notation Editor*, with Juliette Regimbal, Zoé McLennan, Gabriel Vigliensoni, and Andrew Tran. Refereed.
- Music Encoding Conference, University of Vienna, Vienna, Austria, 31 May 2019. *Application of Music-Encoding Technologies to Guatemalan Choirbooks, Facilitating Preservation and Musicological Studies of the Colonial Repertoire*, with Martha E. Thomae, Julie E. Cumming. Refereed. (Best Paper Award).
- Music Encoding Conference, University of Vienna, Vienna, Austria, 30 May 2019. *The Effects of Translation between Symbolic Music Formats: A Case Study with Humdrum, Lilypond, MEI, and MusicXML*, with Néstor, Nápoles Lopez, and Gabriel Vigliensoni. Refereed (poster).
- Music Encoding Conference, University of Vienna, Vienna, Austria, 30 May 2019. *Cantus Ultimus' MEI Neume Module and its Interoperability Across Chant Notations*, with Elsa De Luca, Jennifer Bain, Inga Behrendt, Kate Helsen, Alessandra Igesti, Debra Lacoste, and Sarah Ann Long. Refereed.

## INVITED TALKS (cont.)

- Music Encoding Conference, University of Vienna, Vienna, Austria, 30 May 2019. *Enabling Music Search and Analysis: A Database for Symbolic Music Files*, with Yaolong Ju, Gustavo Polins Pedro, Cory McKay, Emily Ann Hopkins, and Julie Cumming. Refereed.
- Academia Sinica, Taipei, Taiwan, 29 March 2019. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System*.
- The University of Hong Kong, Hong Kong, 26 March 2019. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System*.
- Hakodate Future University, Hakodate, Japan, 22 January 2019. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System*.
- Doctoral Colloquium, Schulich School of Music, McGill University, 23 November 2018. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System*.
- Tutorial at International Society of Music Information Retrieval Conference 23 September 2018. *Optical Music Recognition for Dummies*, with Jorge Calvo-Zaragoza, Jan Hajič, Jr., and Alexander Pacha. Video: <https://omr-research.net/2018/11/23/getting-started/>
- IMS Study Group Meeting for Cantus Planus, Linnaeus University, Växjö, Sweden, 7 August 2018. 'A Neume by Any Other Name...': *Considering Neumes Described in MEI*, with Kate Helsen, Inga Behrendt, Elsa De Luca, Alessandra Ignesti, Debra Lacoste, and Sarah Long. Refereed.
- Music Encoding Conference, University of Maryland, College Park, MD, 22 May 2018. *Automatic Scoring up of Music in Mensural Notation*, with Martha Thomae and Julie Cumming. Refereed.
- Music Encoding Conference, University of Maryland, College Park, MD, 22 May 2018. *Human-Aided Automatic Music Document Analysis*. with Jorge Calvo-Zaragoza, Ké Zhang, Zeyad Saleh, and Gabriel Vigliensoni. Refereed.
- Information Processing Society of Japan, Special Interest Group on Music and Computer, Summer Symposium, Hiroshima, Japan, 21 August 2018. Keynote Speaker. *The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow*.
- International Workshop on Digital Libraries for Musicology, Shanghai, China, 28 October 2017. *A Database Model for Computational Music Research*, with Cory McKay, Andrew Hankinson, and Julie Cumming. Refereed (poster).
- International Society for Music Information Retrieval Conference: Late-breaking Demo Session, Suzhou, China, 27 October 2017. Characterizing Composers using jSymbolic2 Features, with Cory McKay (presenter), Julie Cumming. Refereed.
- The IIF Conference, The Vatican, Italy, 7 June 2017. *Tripoli: Presentation API Validation and Correction* with Alex Parmentier and Andrew Hankinson. Refereed (poster).
- Music Encoding Conference, University of Tours, Tours, France, 18 May 2017. *About Agnostic Representation Of Musical Documents for Optical Music Recognition*, with Jorge Calvo-Zaragoza, David Rizo, Jose M. Iñesta. Refereed (poster).
- Music Encoding Conference, University of Tours, Tours, France, 17 May 2017. *Integrating the International Image Interoperability Framework (IIF) with MEI*, with Andrew Hankinson (presenter). Refereed.
- Music Encoding Conference, University of Tours, Tours, France, 17 May 2017. *A Unified Approach towards Automatic Recognition of Heterogeneous Music Documents* with Jorge Calvo-Zaragoza (presenter) and Gabriel Vigliensoni. Refereed.
- International Musicological Society Congress, Tokyo, Japan, 19 March 2017. *Large-Corpus Music Research* with Julie Cumming, Andrew Hankinson, Reiner Krämer, Cory McKay, Peter Schubert, and Jon Wild. Refereed.
- The 3<sup>rd</sup> International Digital Libraries for Musicology workshop (DLfM 2016), New York, NY, 12 August 2016. *The Human History Project: Digital Prosopography of Renaissance Musicians*. Poster with Susan Forscher Weiss. Refereed.
- International Society for Music Information Retrieval Conference: Late-breaking Demo Session, New York, NY, 11 August 2016. jSymbolic2: *Extracting Features from Symbolic Music Representations*, with Cory McKay (presenter), Triatan Tenaglia, and Julie Cumming. Refereed.
- Music Encoding Conference, Montreal. 19 May 2016. *Hartker's XML: The Optical Neume Recognition Project and MEI* with Katherine Helsen, Jennifer Bain, Andrew Hankinson, Inga Behrendt, and Ichiro Fujinaga. Refereed.
- Music Encoding Conference, Montreal. 19 May 2016. *An MEI Score Alignment Application* with Andrew Horwitz, Andrew Hankinson, and Ichiro Fujinaga. Refereed (poster).
- The Annual Meeting of Renaissance Society of America, Boston, MA, 1 April 2016. *Web-Based Optical Music Recognition for Renaissance Printed Music with Aruspix and Rodan*. Presented by Andrew Hankinson. Refereed.

## INVITED TALKS (cont.)

- The 132<sup>nd</sup> Research Center for Knowledge Communities Colloquium, Tsukuba University, Tsukuba, Japan. 17 March 2016. *Human History Project*.
- Hakodate Future University, Hakodate, Japan, 7 March 2016. *Human History Project. The Research Program of the Distributed Digital Music Archives and Libraries Laboratory, Single Interface for Music Score Searching and Analysis*.
- Queen Mary, University of London, London, UK, 18 February 2016. C4DM Seminar: *The Research Program of the Distributed Digital Music Archives and Libraries Laboratory*.
- Fusing Audio and Semantic Technologies for Intelligent Music Production and Consumption (FAST) 2<sup>nd</sup> All-Hands Meeting, Paris, France, 16 February 2016. Keynote Speaker. *Single Interface for Music Score Searching and Analysis*.
- University of Kyoto, Kyoto, Japan. 28 January 2016. *The Research Program of the Distributed Digital Music Archives and Libraries Laboratory*.
- The 129<sup>th</sup> Research Center for Knowledge Communities Colloquium, Tsukuba University, Tsukuba, Japan. 26 January 2016. *Single Interface for Music Score Searching and Analysis*.
- Japan Advanced Institute of Science and Technology (JAIST), Kanazawa, Japan. 21 January 2016. *Human History Project*.
- School of Information Studies Research Seminar, McGill University, Montreal. 13 November 2015. *The Research Program of the Distributed Digital Music Archives and Libraries Laboratory*.
- Universitat Pompeu Fabra, Barcelona, Spain. 5 November 2015. *Single Interface for Music Score Searching and Analysis Project*.
- University of Alicante, Alicante, Spain. 2 November 2015. *Single Interface for Music Score Searching and Analysis Project*.
- International Society for Music Information Retrieval Conference, Malaga, Spain. 30 October 2015. Cory McKay and Ichiro Fujinaga. *Building an infrastructure for a 21<sup>st</sup>-century global music library*. Refereed (poser).
- CCS Colloquium, University of Virginia. 2 October 2015. *10 Years of Innovation in Music Digitization & Dissemination*.
- Department of Music, University of Virginia. 1 October 2015. *Single Interface for Music Score Searching and Analysis*.
- SSHRC Digital Workshop, Ottawa. 30 September 2015. *Music Information Retrieval*.
- Oxford eResearch Centre Seminar. 28 July 2015. *Research Program of the Distributed Digital Music Archives and Libraries Laboratory*.
- Transforming Musicology Event at Oxford eResearch Centre, 27 July 2015. *SIMSSA: Single Interface for Music Score Searching and Analysis*.
- Digital Humanities at Oxford Summer School 2015, 20 July 2015. *SIMSSA: Single Interface for Music Score Searching and Analysis*. (Poster)
- International Association of Music Libraries, Archives and Documentation Centres (IAML) / International Musicological Society (IMS) Congress, 23 June 2015. Andrew Hankinson and Ichiro Fujinaga. *An introduction to tools and practices for the Music Encoding Initiative*. Refereed.
- International Association of Music Libraries, Archives and Documentation Centres (IAML) / International Musicological Society (IMS) Congress, 22 June 2015. Susan Forscher Weiss and Ichiro Fujinaga. *Digital prosopography of Renaissance musicians*. Refereed.
- Music Encoding Conference, Florence, Italy. 19 May 2015. Andrew F. Fogarty, Andrew Hankinson, and Ichiro Fujinaga. *A browser-based neume metadata editor*. Refereed.
- Music Encoding Conference, Florence, Italy. 19 May 2015. Andrew Horwitz, Andrew Hankinson, and Ichiro Fujinaga. *A browser-based MEI editor*. Refereed.
- Journées d'Informatique Musicale, Montreal. 8 May 2015. Audrey Laplante, Andrew Hankinson, Julie E. Cumming, and Ichiro Fujinaga. *SIMSSA : Une interface unique pour la recherche et l'analyse de millions de partitions musicales numériques*. Refereed.
- Music Encoding Initiative Workshop. Detmold, Germany. 24 May 2015. *SIMSSA: Single Interface for Music Score Searching and Analysis: An overview*.
- The Annual Meeting of the Renaissance Society of America, Berlin. 26 March 2015. *A Report on the Digital Prosopography of Renaissance Musicians*. Refereed.
- The Annual Meeting of the Renaissance Society of America, New York, NY. 27 March 2014. *Digital Prosopography of Renaissance Musicians: A Progress Report*. Refereed.
- Japan Society for Sonic Arts: Keynote Speech, Tokyo, Japan. 2 November 2014. *SIMSSA: Single Interface for Music Score Searching and Analysis*, with Andrew Hankinson.
- HathiTrust Research Centre, Chicago, IL. 20 February 2014. *Finding music scores in books*, with D. Bainbridge.

## INVITED TALKS (cont.)

- McGill Digital Humanities Work in Progress Talk, McGill University, Montreal. 9 February 2014. *Human History Project: Storing documented human history into a database.*
- École Polytechnique de Montréal, Montreal. 19 November 2013. *Digital Prosopography of Renaissance Musicians.*
- Escuela Universitaria de Música, Montevideo, Uruguay. 11 November 2013. *Interfaz Única para la Búsqueda y Análisis de Partituras (SIMSSA).*
- McGill Medievalists “Works-in-Progress Series” McGill University, Montreal, QC. 23 October 2013. *Optical Music Recognition of Medieval Music.*
- International Association of Music Librarians Conference, Vienna. 2 August 2013. Andrew Hankinson and Ichiro Fujinaga. *Using optical music recognition to navigate and retrieve music documents.*
- Colloquium at The Catapult Center for Digital Humanities and Computational Analysis of Texts, Indiana University, Bloomington, IN. 22 March 2013. *The Research Program at the Distributed Digital Music Archives and Libraries Laboratory.*
- Computer Science Department, Dalhousie University. Halifax, NS. 20 March 2013. *Current Research at the Distributed Digital Music Archives and Libraries Laboratory.*
- School of Information Studies, McGill University, Montreal. 22 February 2013. *Machine learning in Digital Humanities and the importance of ground-truth data.*
- American Musicological Society Meeting, New Orleans, LA. 1 November 2012. *SIMSSA: Single Interface for Music Score Searching and Analysis.*
- Peabody Conservatory of Music, The Johns Hopkins University, Baltimore, MA. 31 October 2012. *Current research at distributed digital music archives and libraries laboratory.*
- International Association of Music Librarians Conference, Montreal. 23 July 2012. *SIMSSA: Single Interface for Music Score Searching and Analysis.*
- International Musicological Society Congress, Rome, Italy. 7 July 2012. *SIMSSA: Single Interface for Music Score Searching and Analysis.*
- Cornell University, Ithaca, NY. 12 May 2012. Music: Cognition, Technology, Society: Keynote Speaker. *The research program at the distributed digital music archives and libraries laboratory.*
- Public Digital Humanities Roundtable, McGill University. 30 April 2012. *Music Archivists Without Borders.*
- IRAB Audio Digitization Workshop, Beirut, Lebanon. 19 April 2012. *Introduction to metadata and metadata for audio.*
- International Workshop on Advances in Music Information Research, Lyon, France. 17 April 2012. A. Hankinson, J. A. Burgoyne, G. Vigiensoni, and I. Fujinaga. *Creating large-scale searchable digital collections from printed music materials.*
- Renaissance Society of America Annual Meeting, Washington, DC. 24 March 2012. *Digital prosopography of Renaissance musicians: Discovery of social and professional network*, with S. Weiss.
- New York University, New York, NY. 3 March 2012. *SIMSSA: Single Interface for Music Score Searching and Analysis.*
- McGill University, School of Information Studies, 17 October 2011. *Distributed digital music archives and libraries.*
- NFAIS Humanities Roundtable, New York, NY. 3 October 2011. *Two current research projects in music information retrieval at distributed digital music archives and libraries laboratory.*
- Osaka Symposium on Digital Humanities. Osaka, Japan. 2011. J. S. Downie, D. De Roure and I. Fujinaga. *Large-scale music audio analyses using high performance computing technologies: Creating new tools, posing new questions.*
- INESC Porto, Porto Portugal. 18 July 2011. *Distributed digital music archives and libraries.*
- Universitat Pompeu Fabra, Barcelona, Spain. 4 July 2011. *Current research at distributed digital music archives and libraries laboratory.*
- Joint Conference on Digital Libraries, Ottawa, ON. 14 June 2011. *The structural analysis of large amounts of music (SALAMI) project.*
- Digging Into Data Challenge Conference, Washington, DC. 10 June 2011. *The structural analysis of large amounts of music (SALAMI) project.*
- Télécom Paris Tech, Paris. 29 November 2010. *Distributed digital music archives and libraries.*
- Université de Montréal, Montreal, PQ. 30 September 2010. *Distributed digital music archives and libraries.*
- Queen’s University, Belfast, UK. 23 September 2010. *Distributed digital music archives and libraries laboratory.*
- University of Oxford, Oxford, UK. 22 September 2010. *Optical music recognition research at McGill.*
- Singapore National University, Singapore. 2 August 2010. *Distributed digital music archives and libraries project.*

## INVITED TALKS (cont.)

- ACM International Conference on Multimedia Information Retrieval, Philadelphia, PA. 31 March 2010. *Improving automatic music classification performance by extracting features from different types of data*, with C. McKay.
- North East Music Informatics Special Interest Group (NEMISIG) Workshop, New York University, New York, NY. 29 January 2010. *Distributed digital music archives and libraries laboratory*.
- e-Science for Musicology Workshop, Edinburgh, UK. 2 July 2009. *Distributed digital music archives and libraries laboratory*.
- Joint Conference on Digital Libraries Workshop, Austin, TX. 20 June 2009. *Networked Environment for Music Analysis: An overview*.
- HITS for Education Conference: Keynote Speaker, Charlottetown, PEI. 26 June 2009. *Distributed digital music archives and libraries*.
- Department of Engineering, University of Tsukuba, Tsukuba, Japan. 28 April 2009. *Distributed digital music archives and libraries*.
- Center for Advanced Sound Technologies, Yamaha Corporation, Hamamatsu, Japan. 15 April 2009. *Distributed digital music archives and libraries*.
- Toho Gakuen School of Music hosted by the Society of Music History and the Associazione Musica Antica Italiana in Giappone, Tokyo, Japan. 25 March 2009. *Iconographic evidence of kettledrums in 14th-century Northern Italy* with S. Weiss.
- Showa Academy Musicae, Tokyo, Japan. 24 February 2009. *Distributed digital music archives and libraries*.
- Tokyo University, Tokyo, Japan. 20 February 2009. *Distributed digital music archives and libraries*.
- SIGMUS (Special Interest Group on Music and Computer) Meeting of the Information Processing Society of Japan: Keynote Speaker, Tokyo, Japan. 17 February 2009. *Distributed digital music archives and libraries*.
- Graduate School of Library and Information Science, University of Tsukuba, Tsukuba, Japan. 13 January 2009. *Distributed digital music archives and libraries*.
- Tokyo University of the Arts, Tokyo, Japan. 2 December 2008. *Distributed digital music archives and libraries*.
- Japan Advanced Institute of Science and Technology, Kanazawa, Japan. 20 November 2008. *Distributed digital music archives and libraries*.
- Keio University, Tokyo, Japan. 6 November 2008. *Distributed digital music archives and libraries*.
- Tokyo University, Tokyo, Japan. 22 October 2008. *Music and biomechanics*.
- Osaka University, Osaka, Japan. 16 October 2008. *Distributed digital music archives and libraries*.
- Kwansei Gakuin University, Nishinomiya, Japan. 14 October 2008. *Distributed digital music archives and libraries*.
- 18th Conference of International Society for the Research and Promotion of Wind Music (IGEB), Echternach, Luxembourg. 11 July 2008. *Evidence of kettledrums in late Medieval Italy* with S. Weiss.
- City University of New York. 8 May 2008. *New evidence for the origins of timpani in Western Europe* with S. Weiss.
- Music Library Association. 77<sup>th</sup> Annual Meeting. Newport, RI. 22 February 2008. *Metadata infrastructure for Sound recordings*. (Poster with C. Lai, D. Descheneau, M. Frishkopf, J. Riley, J. Hafner, and B. MsMillan).
- North East Music Informatics Special Interest Group (NEMISIG) Workshop, Columbia University, New York, NY. 25 January 2008. *Distributed digital music archives and libraries laboratory*.
- Peabody Conservatory of Music, the Johns Hopkins University, Baltimore, MD. 28 November 2007. *Iconographic evidence of kettledrums in 14th-century Northern Italy* with S. Weiss.
- American Musicological Society meeting: American Music Instrument Society Study Session, Quebec City, QC. 3 November 2007. *Iconographic evidence of kettledrums in 14th-century Northern Italy* with S. Weiss.
- Pop & Policy Conference 2007. McGill University, Montreal, QC. 6 October 2007. *The Archival Restoration Preservation Society*. Panelist.
- 36<sup>th</sup> Annual Meeting of American Music Instrument Society, New Haven, CT. 28 June 2007. *Iconographic evidence of kettledrums in 14th-century Northern Italy* with S. Weiss.
- Canadian University Music Society/Canadian Association of Music Libraries, Archives, and Documentation Centres. 2007 Annual Joint Conference. Faculty of Music, University of Montreal, Montreal, QC. 12 May 2007. *Distributed digital music archives and libraries*.
- Universitat Pompeu Fabra, Barcelona, Spain. 22 February 2007. *Distributed digital music archives and libraries*.
- Digital Music Research Network Workshop 2006, Queen Mary, University of London, London, UK. 20 December 2006. *Distributed digital music archives and libraries*.
- Ecole d'ingenieurs et d'architectes de Fribourg, Switzerland. 26 June 2006. *Two approaches to optical music recognition* with Laurent Pugin.
- 150<sup>th</sup> Meeting of the Acoustic Society of America, Minneapolis, MN. 21 October 2005. *Distributed digital music archives and libraries*. *Journal of Acoustical Society of America* 118 (3): 2031.

## INVITED TALKS (cont.)

- Summit on Digital Tools for the Humanities, University of Virginia, Charlottesville, VA. 28–30 September 2005. *Metasearch and on-demand metadata extraction.*
- The Art of Record Production Conference, University of Westminster, London, UK. 17–8 September 2005. *A guideline and a metadata schema for building a global database of music recordings.*
- SIGGRAPH Local Chapter meeting, Montreal, QC. 22 March 2005. *Distributed digital music archives and libraries.*
- DIAMM Workshop II, University of Oxford, Oxford, UK. 29–30 July 2004. *Creation of searchable database for noteshapes.*
- Online Chopin Variorum Edition Workshop, University of Pennsylvania, Philadelphia, PA. 26–27 May 2004. *Levy Sheet music project and optical music recognition: Introducing Gamut.*
- Renaissance Society of America Annual Meeting, New York, NY. 2 April 2004. *From manuscript to printing press to computer chip: Studying early music in digital format,* with S. Weiss.
- DIAMM Workshop, Oxford University, Oxford, UK. 27–28 November 2003. *Levy Sheet music project and optical music recognition.*
- Music Technology Area Colloquium. McGill University, Montréal, QC. 13 September 2002. *Gamera: Optical music recognition in a new shell.*
- Digital Resources for Humanities Conference, University of Gloucestershire, Cheltenham, UK. 31 August 2003. *Computer applications and resources in music scholarship: The present and the future,* with S. Weiss.
- International Musicology Society, 17<sup>th</sup> International Congress Leuven, Belgium. 5 August 2002. *Digitization of the Lester S. Levy collection of sheet music.*
- 143<sup>rd</sup> Meeting of the Acoustic Society of America, Pittsburgh, PA. 6 June 2002. *Comparison of machine and human recognition of isolated instrument tones. Journal of Acoustical Society of America* 111(5): 2417.
- University of California, Irvine, CA. 5 March 2002. *Computer recognition of orchestral instruments.*
- University of California, Santa Barbara, CA. 4 March 2002. *Lazy learning and realtime timbre recognition.*
- Stanford University. Pal Alto, CA. 1 March 2002. *The Levy Project: Introducing Gamera.*
- Music Library Association. 71<sup>st</sup> Annual Meeting, Las Vegas, NV. 21 February 2002. *Toward distributed digital music library.*

## OTHER CONFERENCES ATTENDED

3<sup>rd</sup> Meeting of Society of Digital Archive, 15–16 March 2019, Kyoto, Japan  
Works, Work Titles, Work Authorities: Perspectives on Introducing a Work Level in RISM, 9–11 May 2019, Mainz, Germany.  
27<sup>th</sup> Meeting of the Japan Society of Sonic Arts, 4 March 2017, Tokyo, Japan  
Japanese Artificial Intelligence Conference, 6–8 June 2016, Kokura, Japan.  
International World Wide Web Conference, 11–15 April 2016, Montreal, Canada  
110<sup>th</sup> Information Processing Society of Music Information Science Society meeting, 29 February-1 March 2016, Osaka, Japan.  
Information Processing Society for Accessibility Study Group meeting, 13 February, Tokyo, Japan.  
The First Digital Humanities Symposium. 26 January 2016, Tokyo, Japan.  
The Digital Scholarship Workshop in DC sponsored by Trans-Atlantic Platform for the Social Sciences and Humanities. 28–9 January 2015, Washington, DC.  
Lorenz Center Workshop on Music Similarity: Concepts, Cognition and Computation. 19–23 January 2015, Leiden, the Netherlands.  
American Musicological Society / Society for Music Theory Meeting. 6–9 November 2014, Milwaukee, WI.  
International Society for Music Information Retrieval Conference, 27–31 October 2014, Taipei, Taiwan.  
IAML (International Association of Music Libraries) Conference. 28 July – 3 August 2013, Vienna, Austria.  
Society of Music Perception and Cognition, 8–11 August 2013, Toronto, ON.  
Medieval and Renaissance Music Conference. 4–7 July 2013, Certaldo, Italy.  
American Musicological Society Meeting. 10–13 November 2011, San Francisco, CA.  
International Symposium on Performance Science. 23–28 August 2011, Toronto, ON.  
IAML International Conference. 24–29 July 2011, Dublin, Ireland.  
AES 42<sup>nd</sup> Conference on Semantic Audio. 22–24 July 2011, Ilmenau, Germany.  
International Workshop on Advances in Music Information Research. 15 July 2011, Barcelona, Spain.  
IEEE International Conference on Multimedia and Expo. 11–15 July 2011, Barcelona, Spain.  
Medieval and Renaissance Music Conference. 5–8 July 2011, Barcelona, Spain.  
LIBER 2011: Association of European Research Libraries Conference. 29 June–2 July 2011, Barcelona, Spain.  
Digging Into Data Challenge Conference. 9–10 June 2011, Washington, DC.  
Renaissance Society of America Annual Meeting. 24–26 March 2011, Montreal, QC.  
Dagstuhl Seminar on Multimodal Music Processing. 23–28 January 2011, Dagstuhl, Germany.  
American Musicological Society / Society of Music Theory Meeting. 23–27 November 2010, Indianapolis, IN.  
3<sup>rd</sup> Annual Lawrence J. Schoenberg Symposium on Manuscript Studies in the Digital Age. 19–20 November 2010, Philadelphia, PA.  
IAML, 5–11 July 2009, Amsterdam, Netherlands.  
AIRS Start-up Conference, 27–30 June 2009, Charlottetown, PEI.  
Joint Conference on Digital Libraries, 15–20 June 2009, Austin, TX.  
71<sup>st</sup> National Convention of Information Processing Society of Japan, 10–12 March 2009, Kusatsu-shi, Japan  
Asian-Pacific Conference on Library and Information Education Practice (A-LIEP 2009), 6–8 March 2009, Tsukuba, Japan  
Workshop on Interactive Systems and Software, 26–8 November 2008, Kobe, Japan.  
Musical Acoustics Society of Japan Workshop 15–16 November 2008, Kanazawa, Japan.  
Entertainment Computing 2008, 29–31 October 2008, Kanazawa, Japan.  
Musical Acoustics Society of Japan Workshop 18 October 2008, Tokyo, Japan.  
Joint Conference on Digital Libraries, 16–20 June 2008, Pittsburgh, PA.  
Canadian Association of Music Libraries Conference, 7–8 June 2008, Vancouver, BC.  
Canadian Association for Information Science Conference, 5–7 June 2008, Vancouver, BC.  
Association for Recorded Sound Collections Conference, 26–30 March 2008, Pal Alto, CA.  
Mellon Foundation: Research in Information Technologies / Scholarly Communications Program Retreat, 28–9 February 2008, Princeton, NJ.  
Music Library Association 77<sup>th</sup> Annual Meeting, 17–24 February 2008, Newport, RI.  
Mellon Foundation All-Projects Meeting. 5–7 June 2007, New York, NY.  
American Musicological Society / Society of Music Theory Meeting. 1–5 November 2006, Los Angeles, CA.  
New Interfaces for Music Expression. 5–8 June 2006, Paris, France.  
European Conference on Information Retrieval. 10–2 April 2006, London, England.  
American Musicological Society Meeting. 26–9 October 2005, Washington, DC.  
International Association of Music Libraries and IASA Congress. 8–13 August 2004, Oslo, Norway.  
International Conference on Music Perception and Cognition. 3–7 August 2004, Evanston IL.  
Sound Savings: Preserving Audio Collections Symposium. 24–6 July 2003, Austin, TX.



## CONFERENCES and WORKSHOPS HOSTED

- 2023/10/21–22: LinkedMusic Project Meeting II at McGill (Montreal)
- 2023/07/24: LinkedMusic Workshop III at Bavarian State Library (Munich)
- 2022/11/19–20: LinkedMusic Project Meeting I at CIRMMT (Montreal)
- 2022/11/18: LinkedMusic Workshop II at CIRMMT (Montreal)
- 021/10/01: LinkedMusic Workshop I at CIRMMT (Montreal)
- 2020/10/11–15: International Society for Music Information Retrieval (Montreal / Virtual)
- 2019/09/21: SIMSSA Workshop XIX at CIRMMT<sup>1</sup> (Montreal)
- 2019/06/02: SIMSSA Workshop XVIII at Music Encoding Conference (Vienna)
- 2018/12/01: SIMSSA Workshop XVII at CIRMMT (Montreal)
- 2018/11/01: SIMSSA Workshop XVI at AMS/SMT<sup>2</sup> (San Antonio)
- 2018/07/27: SIMSSA Workshop XV at IAML<sup>3</sup> (Leipzig)
- 2018/05/28: SIMSSA Workshop XIV at CIRMMT (Montreal)
- 2017/09/30: Verovio (music engraving software) Hack Day (Montreal)
- 2017/09/22: SIMSSA Workshop XIII at Art Gallery of Nova Scotia (Halifax)
- 2017/08/07: SIMSSA Workshop XII at CIRMMT (Montreal)
- 2016/11/03: SIMSSA Workshop XI at AMS/SMT (Vancouver)
- 2016/09/24: SIMSSA Workshop X at CIRMMT (Montreal)
- 2016/07/09: SIMSSA Workshop IX at IAML (Rome)
- 2016/05/21: SIMSSA Workshop VIII at CIRMMT (Montreal)
- 2016/05/17–20: Music Encoding Conference (Montreal)
- 2015/12/12: Second International Workshop on the Human History Project (Montreal)
- 2015/09/25: CIRMMT Workshop on Usability and User Experience for Music Information Systems
- 2015/07/09: SIMSSA Workshop VII at MedRen Conference (Brussels)
- 2015/06/27: SIMSSA Workshop VI at IAML/IMS (New York City)
- 2014/11/06: SIMSSA Workshop V at AMS/SMT (Milwaukee)
- 2014/09/29: SIMSSA Workshop IV at CIRMMT (Montreal)
- 2013/09/07: SIMSSA Workshop III at CIRMMT (Montreal)
- 2013/06/21: CIRMMT Workshop on Human History Project #1 (Montreal)
- 2012/07/28: SIMSSA Workshop II at IAML (Montreal)
- 2011/11/12: SIMSSA Workshop I at AMS (San Francisco)
- 2010/10/22: CIRMMT Workshop on Music Information Retrieval and Cultural Data
- 2009/10/26–30: International Society for Music Information Retrieval (Kobe, Japan)

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<sup>1</sup> Centre for Interdisciplinary Research in Music Media and Technology

<sup>2</sup> American Musicological Society / Society for Music Theory

<sup>3</sup> The International Association of Music Libraries, Archives and Documentation Centres Congress

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**Natural language fluency:**

English: reading, speaking, writing  
French: reading, speaking, writing\*  
Japanese: reading, speaking, writing\*  
German: reading\*, speaking\* (\* means limited)

**Computer language fluency:**

Programming Languages: Algol, APL, Basic, C, C++, Fortran, Java, JavaScript, Objective-C, Pascal, PostScript, PL/1, Python, XPL, and Assembler (IBM360/370, M56000, TI320x0, and 8088/80x86)  
Operating Systems: CP/M, MacOS, MTS, MVS/OS, MUSIC, MS-DOS, OSX, UNIX/Linux, Windows

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**Musical career:**

1988–94, 2003– Member of *Arashi Daiko* (traditional Japanese drum group)  
1985 Baroque timpanist, Dietrich Buxtehude:  
*Cantatas for Lent and Easter* (McGill Records 84021).  
1979–81 Percussionist, *Edmonton Symphony Orchestra*  
1979–80 Composer/Percussionist, University of Alberta Drama Dept.  
1979 Percussionist, *Ice Capades; Citadel Theatre*  
1978–80 Percussionist/Accompanist, *Brian Webb Dance Company*  
Teacher of percussion and drums, *The Drum Shop*  
Drummer, *University of Alberta Stage Band*  
1978 Founded *Kashim Percussion Quartet*, Edmonton's first professional percussion ensemble  
1977–81 Timpanist/Percussionist, *St. Cecilia Orchestra*  
1975–80 Percussionist/Timpanist, *University of Alberta Wind Ensemble*  
1974 Percussionist, *University of Alberta Concert Band*  
1973 Founded *Synthesis*, an electronic music ensemble  
1972–81 Drummer, various dance bands

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**Courses taught:**

McGill University: Music and Audio Computing II (2014)  
Music and the Internet (2011–3)  
Seminar: Music Information Acquisition, Preservation, and Retrieval (2004–7, 2009, 2011–5, 2017–8, 2020–22)  
Seminar: Musical Data Mining (2003)  
Music and Audio Computing I (2002)  
Advanced Multimedia Development (2002–7)  
Independent Music, Media & Technology Projects: Music Technology: Beinan Li (2006), Gregory Burette, Gabriel Vigiliensoni (2012); Jason Leung (2014); Austin Dunn (2016); Yaolong Ju (2017); 2019: Jacob-Sanz Robinson (2019); Suzuka Kokubu (2020)

Johns Hopkins University: Digital Music Programming (1994–2002)  
Synthesis Theory (1994–2002)  
Research Practicum (1994–2002)  
Introduction to Programming (1998–2000)  
Seminar: Music Data Mining (2001)  
Seminar: Linux and Music (2000)  
Seminar: Designing Web-based Music Applications (1998)  
Seminar: SuperCollider (1997)  
Seminar: Publishing on the Internet (1996)

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## Student Advisees:

### McGill University:

- Kyrie Bouressa (Ph.D. 2023–)
- John Ashley Burgoyne (Ph.D. 2005–12) *Stochastic processes and database-driven musicology.*
- Gregory Burlet (M.A. 2011–3) *Automatic guitar tablature transcription online.*
- Spencer Campbell (M.A. 2009–11) *Automatic key detection of musical excerpts from audio.*
- Harry Chung (M.A. 2020–23) *Gender Classification Using In-ear Microphone.*
- Alex Daigle (M.A. 2017–20) *Evaluation of optical music recognition software.*
- Timothy de Reuse (M.A. 2017–19) *A machine learning approach to pattern discovery in symbolic music.*
- Timothy de Reuse (Ph.D. 2019–)
- Johanna Devaney (Ph.D. 2007–12) *An empirical study of the influence of musical context on intonation practices in solo singers and SATB ensembles.*
- Yulia Draginda (2018–2021; co-supervisor) *Temporal elasticity as the most important tool for expressive performance of German late Romantic organ music.*
- Greg Eustace (M.A. 2006–8) *Subjective evaluation of an autoregressive model-based method for the restoration of audio recordings contaminated with impulsive noise.*
- Robert Ferguson (M.A. 2002–4) *Automatic segmentation in concert recordings.*
- Rebecca Fiebrink (M.A. 2004–6) *An exploration of feature selection as a tool for optimizing musical genre classification.*
- Robert Giglio (M.A. 2014–16; co-supervisor)
- Ryan Groves (M.A. 2012–16) *Automatic melodic analysis.*
- Andrew Hankinson (Ph.D. 2007–14) *Optical music recognition infrastructure for large-scale music document analysis.*
- Sevag Hanssian (M.A. 2020–22) *Music demixing with the sliced Constant-Q transform.*
- Jason Hockman (Ph.D. 2007–13) *An ethnographic and technological study of breakbeats in Hardcore, Jungle, and Drum & Bass.*
- Andrew Horwitz (M.A. 2013–)
- Yaolong Ju (Ph.D. 2016–21) *Addressing ambiguity in supervised machine learning: A case study on automatic chord labelling.*
- Andrew Kam (M.A. 2017–9) *Automatic classification of artist visual aesthetics: Linking fashion and genre.*
- Stephanie Khoury (Ph.D. 2014–7; co-supervisor) *Improvise: Research-creation of a framework and software prototype for creative music learning with technology.*
- Trevor Knight (M. Eng. 2010–2; co-supervisor) *Analysis of trumpet tone quality using machine learning and audio feature selection.*
- Suzuka Kokubu (M.A. 2019–22) *The automatic classification of noh chant books with machine learning.*
- Catherine Lai (Ph.D. 2003–7) *Metadata for phonograph records: Facilitating new forms of use and access.*
- Beinan Li (Ph.D. 2004–11) *Optical audio reproduction for stereo phonograph records by using white-light interferometry and image processing.*
- Wan Yi Lin (M.A. 2020–22) *Generating dance motion using musical features.*
- Lucas March (M.A. 2023–)
- Daniel McEnnis (M.A. 2004–6) *On-demand Metadata Extraction Network.*
- Cory McKay (M.A. 2002–4) *Automatic genre classification of MIDI recordings.*
- Cory McKay (Ph.D. 2004–10) *Automatic music classification with jMIR.*
- Néstor Nápoles (Ph.D. 2017–22) *Automatic roman numeral analysis in symbolic music representations.*
- Alastair Porter (M.A. 2010–3) *Evaluating music fingerprinting systems.*
- Hannah Robertson (M.A. 2011–3) *Testing a new tool for alignment of musical recordings.*
- Ying Qin (M.A. 2011–3) *A historical survey of music recommendation systems: Towards evaluation.*
- Evan Savage (M.A. 2018–20) *Optical music recognition of square notation using generative adversarial networks.*
- Jordan Smith (M.A. 2008–11) *A survey of approaches to the automatic formal analysis of musical audio.*
- Dan Scott (Ph.D. 2019–; co-supervisor)
- Martha Thomae (M.A. 2015–7) *Automatic scoring up of mensural music using perfect mensuration, 1300–1500.*
- Martha Thomae (Ph.D. 2017–22) *Guatemalan cathedral choirbooks: From manuscript to digital images to edited symbolic scores*
- Adam Tindale (M.A. 2002–4) *Classification of snare drum sounds using neural networks.*

Gabriel Vigliensoni (Ph.D. 2011–7) *Evaluating the performance improvement of a music recommendation model by using user-centric features*  
Ling-Xiao Yang (M.A. 2014–6) *Singing transcription using machine learning with feature selection.*  
Junhao Wang (M.A. 2020–22) *Automatic classification of playing techniques in Guitar Pro songs.*  
Hanwen Zhang (Ph.D. 2023–)  
Yinan Zhou (M.A. 2020–22) *Music emotion recognition on lyrics using natural language processing.*

**Postdoctoral fellows:** Laurent Pugin (2006–8); Mathieu Bergeron (2010–2); Andrew Hankinson (2015–6); Reiner Krämer (2015–7); Clair Arthur (2016–8); Nathaniel Condit-Shultz (2017–8); Gabriel Vigliensoni (2017–9); Jorge Calvo-Zaragoza (2017–8); Finn Upham (2019–20); Anna de Bakker (2021–)

**Johns Hopkins University:**

Jeff Beman (D.M.A. 1995), Matthew Burtner (M.M. 1997), Michael Droettboom (M.M. 2002), Mark Emon (M.M.), Takayuki Hoshishiba (JAIST: Ph.D. 2000, M.Sc. 1996, co-supervisor), Charles Kim (M.M. 1998), Sumi Kim (M.M.), Ken Kinnard (M.M. 1995), Marian Lee (D.M.A. 2002), Wan Ching Lee (M.M. 1999), Wendy Linkin (M.M. 1997), Karl MacMillan (M.M. 2002), Chris Mandra (D.M.A.), Meg Schedel (M.M. 2001), Seong Ah Shin (M.M.), Scott Smallwood (M.M.), Asha Srinivasan (M. M.), David Sullivan (M.M. 2001), Rie Suzuki (D.M.A. 1999), Forrest Tobey (D.M.A. 1997), Michael Urich (M.M. 1996), Gastone Vinci (M.M.), David Wetzel (M.M. 1998), Tony Willert (M.M.), John Young (M.M. 2003), Takako Yoshida (JAIST: Ph.D., M.Sc. 1997, co-supervisor), Lilit Yoo (M.M. 2000)

**Thesis committees (McGill):** Sean Olive (Ph.D. Sound Recording 2004), Jung-Kyong Kim (M.Sc. Psychology 2003), Finn Upham (M.A., Music Technology 2011), Chelsea Douglas (M.A. Music Technology 2015), Chris Wood (M.A. Music Technology 2015), Jason Leung ((M.A. Music Technology 2015), Elliot Creager (M.A. Music Technology 2015), Nicholas Esterer (M.A. Music Technology 2016), Wen Xiao (M.A. Music Technology 2017), Na Eun Kim (M.A. Music Technology 2017), Lena Heng (M.A. Music Technology 2018), Matan Gover (M.A. Music Technology 2019), Camilo Gomez (M.A. Music Technology 2020)

**Doctoral Comprehensive Examination committees (McGill):** Song Hui Chon (Music Technology 2010), Vanessa Yaremchuk (Music Technology 2010), Corey Kereliuk (Music Technology 2010), Brett Leonard (Sound Recording 2011), Dave Benson (Sound Recording 2011), Sven-Amin Lembke (Music Technology 2011), Kai Siedenbug (Music Technology 2014), Eddy Kazazis (Music Technology 2016), Tanor Bonin (Music Technology 2018), Julian Neri (Music Technology 2019), Yulia Draginda (D.M.A. Music Performance, Organ, 2019), Yuval Adler (Music Technology 2020), Behrad Madahi (Music Technology 2020), Douglas Beaton (Music Technology 2020), Tobias Tschiedl (Music Theory 2020)

**PhD Defense committees (McGill):** Brad Vines (Psychology 2005), Charles Antoine Juilen (Information Studies 2010), Farah Kawtharani (Islamic Studies 2012 as Pro-Dean), Ladan Mahabadi (Computer Science 2013), Ahmad Sadek (Mechanical Engineering 2014 as Pro-Dean), Mark Bazett (Human Genetics 2015 as Pro-Dean), David Weigl (Information Studies 2016), Francesco Tordini (Electrical Engineering 2017),

**PhD Defense committees (non-McGill):** Sebastian Streich (Music Technology, Universitat Pompeu Fabra, Spain 2007), Bee Suan Ong (Music Technology, Universitat Pompeu Fabra, Spain 2007), Philippe Hamel (Computing Science, University of Montreal, 2012), Jacek Wolkowicz (Computer Science, Dalhousie University, 2013), Jorge Calvo-Zaragoza (Computer Science, University of Alicante, Spain 2016), Sergio Omras (Music Technology, Universitat Pompeu Fabra, Spain 2017), Jan Halič, Jr. (Mathematics and Physics, Charles University, Czech Republic 2019), Alexandre Pacha (Information Systems Engineering, TU Wien, Austria 2019), Christopher Wick (Department for Artificial Intelligence and Applied Computer Science, University of Würzburg, 2020), Florian Henkel (Institute of Computational Perception, Johannes Kepler University, Linz, Austria 2022)