DR. CORY MCKAY

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CURRENT POSITIONS

2006- **Professor of Music and Humanities**
Department of Liberal and Creative Arts, Marianopolis College, Westmount, Quebec, Canada
Developed and taught courses in a broad range of areas, including music technology, sound recording, audio production, live computer music, psychoacoustics, signal processing, symbolic music, musicology and video games. Organized graduating music recitals and supervised graduating Arts & Sciences independent projects. Hired and supervised research assistants at McGill University using cross-institutional grants. Developed and oversaw the college's recording studio, co-directed ArtsFest, coached the Reach for the Top team to many provincial championships and directed the Marianopolis Laptop Computer Orchestra. Served on numerous faculty committees, including elected positions. Major independent administrative projects included the development of a new institutional research policy for the college and a detailed formal review of the college's music program.

2013- **Regular Member**
Centre for Interdisciplinary Research in Music Media and Technology, Montreal, Quebec, Canada
Collaborated with other senior researchers on multimillion-dollar music technology research projects, including LinkedMusic, SIMSSA and MIRAI. Co-leader of Research Axis 2 (MIR) and member of CIRMMT executive committee starting in 2023. Involved in project planning, event management, grant applications and supervising research assistants.

SELECTED PAST POSITIONS

2015-17 **Music Technology Research Consultant**
LANDR Audio / MixGenius, Montreal, Quebec, Canada
Advised on strategic technology planning related to applying machine learning to automatic audio mastering. Researched, proposed, designed and, in some cases, implemented improvements to the deployed system and associated processes.

2004-11 **Sessional Instructor**
Music Technology Area, McGill University, Montreal, Quebec, Canada
Taught courses dealing with topics such as advanced music computer programming, signal processing, sound synthesis, psychoacoustics, sound recording, audio production, symbolic music processing, image processing and video production.

2010 **Postdoctoral Researcher: Musical Metadata Mining**
Computer Science Department, University of Waikato, Hamilton, New Zealand
Designed and implemented software for automatically identifying musical audio recordings, mining on-line sources for associated metadata and extracting audio features from the recordings. Incorporated this software into the Greenstone digital library framework.

2008-10 **Research Assistant: Networked Environment for Music Analysis (NEMA)**
Music Technology Area, McGill University, Montreal, Quebec, Canada
Worked with a multi-institution research group on developing and implementing a general, open and extensible web services-based resource framework for music information retrieval research. Hired and supervised other research assistants.

2002-03 **Research Assistant: Performance Gesture Analysis**
Music Technology Area, McGill University, Montreal, Quebec, Canada

SELECTED EDUCATION

2004-10 **Ph.D. – Music Technology (CGPA of 4.0 out of 4.0)**
McGill University, Montreal, Quebec, Canada

2002-04 **M.A. – Music Technology (CGPA of 3.9 out of 4.0)**
McGill University, Montreal, Quebec, Canada

1998-02 **B.A. – Honours Majors in Music and in Computer Science (87%, Distinction)**
University of Guelph, Guelph, Ontario, Canada

1995-98 **B.Sc. – Major in Physics (CGPA of 3.5 out of 4.0, Great Distinction)**
McGill University, Montreal, Quebec, Canada

1993-95 **Diploma of Collegial Studies – Pure and Applied Science (91%, Dean's Honours)**
Dawson College, Montreal, Quebec, Canada

SELECTED RESEARCH GRANTS AND HONOURS

2022-29 SSHRC Partnership Grant (co-investigator) ($2,500,000 total)
2020-27 FRQSC Regroupement stratégique (co-investigator) ($1,932,000 total)
2021-25 FRQSC Soutien aux équipes de recherche (co-investigator) ($318,001 total)
2019-24 SSHRC Insight Grant (collaborator) ($339,772 total)
2021-22 SSHRC Partnership Grant (co-investigatory) ($19,951 total)
2014-21 SSHRC Partnership Grant (co-investigator) ($2,726,697 total)
2020-21 SSHRC Institutional Connection Grant (collaborator) ($24,976 total)
2016-20 FRQSC Soutien aux équipes de recherche (co-investigator) ($602,118 total)
2014-20 FRQSC Regroupement stratégique (co-investigator) ($1,459,200 total)
2014-16 FRQSC Soutien aux équipes de recherche (co-investigator) ($54,963 total)
2004-09 McGill Alma Mater, GREAT and CIRMMT grants (totalling $8,500)
2004-07 SSHRC Canada Graduate Scholarship ($35,000 per year, $105,000 total)
2006 Outstanding Paper Award at the ISMIR 2006 conference ($500 award)
2005 First place in all categories in the MIREX Symbolic Music Genre Classification contest
2003-04 FRQSC Bourse de maîtrise en recherche ($15,000 per year, $20,000 total)

LANGUAGES

English (fluent) and French (conversational)

RESEARCH INTERESTS

- **Computational Musicology:** applying machine learning and statistical analysis to Renaissance (and other) music; composer attribution; empirical style delineation by genre, region, etc.
- **Music Information Retrieval (MIR):** automatic music production; multimodal feature extraction (audio, symbolic, lyrics, metadata, images); automatic chord labelling; responsibly addressing intrinsic ambiguity in musical machine learning; general automatic music classification.
- **Digital Music Libraries:** open music research databases; music-related data models; automatic musical metadata annotation; standardized open music-related data formats.
- **Music Performance:** automatic accompaniment systems; analysis of expressive gestures.
- **Education:** AI-based music tutors; automatic error detection systems; music visualization.

SELECTED ACADEMIC SERVICE

2023- CIRMMT Co-Leader of Research Axis 2 (Music Information Research)
2023- CIRMMT Executive Committee
2008- Marianopolis Laptop Orchestra (MLOrk) director
2012- Marianopolis Reach for the Top head coach (and Quebec League Coordinator 2016-)
2023- Marianopolis AI Text Generating Software Taskforce
2022- Marianopolis Music Program Committee
2022-24 ISMIR Mentoring Program
2020-22 Advisory Panel *(Beethoven in the House: Digital Studies of Domestic Music Arrangements)*
2019-21 Collaborator on the Polifonia sforzesca project
2018-21 MCTU Auditing Committee
2018-20 ISMIR 2020 Conference Publication Co-Chair and Local Organizing Committee
2019-20 Marianopolis Broadcast Network faculty advisor
2019 Marianopolis College Institutional Research Policy implementation coordinator
2013-18 Marianopolis Hiring and Selection Committees *(Music, Humanities, Math and Arts & Sciences)*
2012-17 Marianopolis Department of Liberal & Creative Arts Curriculum Committee *(elected)*
2008-17 Marianopolis ArtsFest Organizing Committee
2014, 17 Marianopolis LCA Departmental Chairperson Selection Committee *(elected as chair in 2014)*
2014-16 ArtsFest Co-Coordinator *(a major annual exhibition of student music, film, visual arts, poetry, etc.)*
2009-13 Marianopolis Arts Program Assessment, Development and Evaluation Committee (PADE)

SELECTED STUDENT RESEARCH SUPERVISION / EVALUATION

2017-24 SIMSSA DB project supervisor *(Gustavo Polins Pedro + Yalong Ju + Rebecca Mizrahi + Hong Van Pham, McGill University)*
2018-21 Ph.D. co-supervisor *(Yaolong Ju, McGill University)*
2021 External Ph.D. examiner (*David Daniel Albarracín Molina, Universidad de Málaga*)
2015-20 jSymbolic project supervisor *(Tristano Tenaglia + Rian Adamian, McGill University)*
2014-15 Senior external Ph.D. examiner *(Tiago Videira, Universidade Nova de Lisboa / UT Austin)*
2008-10 NEMA project supervisor *(Jessica Thompson, McGill University)*

SELECTED REVIEW / PROGRAM COMMITTEES

2024 Scientific Reports
2024 IEEE Access
2024 International Journal of Multimedia Information Retrieval
2022-24 Swiss National Science Foundation
2005-24 International Society for Music Information Retrieval Conference (ISMIR)
2008-24 International Computer Music Conference (ICMC)
2021-24 Digital Libraries for Musicology (DLfM)
2017-24 Audio Mostly Conference
2019-23 Transactions of the International Society for Music Information Retrieval (TISMIR)
2017-20 NSERC Discovery Grants
2015,18 External referee for University of Lethbridge Research Fund
2014-17 Computer Music Journal (CMJ)
2017 International Journal on Digital Libraries (IJDL)
2006-16 Journal of Interdisciplinary Music Studies Advisory Board *(Associate Editor 2006-07)*
2011-15 Journal of New Music Research (JNMR)
2007-14 IEEE Transactions on Audio, Speech and Language Processing

ACADEMIC JOURNAL ARTICLES

McKay, C. 2024. RISM Online. *Renaissance and Reformation* 47 (1), 184–191.

Vatolkin, I., and C. McKay. 2022. Multi-objective investigation of six feature source types for multi-modal music classification. *Transactions of the International Society for Music Information Retrieval* 5 (1): 1–19.

Cuenca, M. E., and C. McKay. 2021. Exploring musical style in the anonymous and doubtfully attributed mass movements of the Coimbra manuscripts: A statistical and machine learning approach. *Journal of New Music Research* 50 (3): 199–219.

McKay, C., J. Cumming, and I. Fujinaga. 2021. Lessons learned in a large-scale project to digitize and computationally analyze musical scores. *Digital Scholarship in the Humanities* 36 (s2): ii198–ii202.

McKay, C., and I. Fujinaga. 2007. Style-independent computer-assisted exploratory analysis of large music collections. *Journal of Interdisciplinary Music Studies* 1 (1): 63–85.

Wanderley, M., B. Vines, N. Middleton, C. McKay, and W. Hatch. 2005. The musical significance of clarinetists' ancillary gestures: An exploration of the field. *Journal of New Music Research* 34 (1): 97–113.

ACADEMIC BOOK CHAPTERS

McKay, C., and M. E. Cuenca. 2022. Influencias musicales en las misas y motetes de Cristóbal de Morales y Francisco Guerrero: Una aproximación estadística. In *Musicología en transición*, eds. J. Marín-López, A. Mazuela-Anguita and J. J. Pastor-Comín, 1031–1052. Madrid, Spain: Sociedad Española de Musicología.

Rodríguez-García, E., and C. McKay. 2021. Composer attribution of Renaissance motets: A case study using statistical features and machine learning. In *The Anatomy of Iberian Polyphony Around 1500*, eds. E. Rodríguez-García and J. P. d'Alvarenga, 401–438. Kassel, Germany: Edition Reichenberger.

McKay, C., and I. Fujinaga. 2013. Expressing musical features, class labels, ontologies, and metadata using ACE XML 2.0. In *Structuring Music Through Markup Language: Designs and Architectures*, ed. J. Steyn, 48–79. Hershey, PA: IGI Global.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PUBLICATIONS

McKay, C. 2023. From jSymbolic 2 to 3: More musical features. *Proceedings of the International Symposium on Computer Music Multidisciplinary Research*. 752–755.

Vatolkin, I., and C. McKay. 2022. Stability of symbolic feature group importance in the context of multi-modal music classification. *Proceedings of the International Society for Music Information Retrieval Conference. 469–476*.

Cumming, J., and C. McKay. 2021. Using corpus studies to find the origins of the madrigal. *Proceedings of the Future Directions of Music Cognition International Conference*. 38–42.

Ju, Y., S. Margot, C. McKay, and I. Fujinaga. 2020. Automatic chord labelling: A figured bass approach. *Proceedings of DLfM 2020: The 7th International Conference on Digital Libraries for Musicology*. 27–31.

Ju, Y., S. Margot, C. McKay, L. Dahn, and I. Fujinaga. 2020. Automatic figured bass annotation using the new Bach Chorales Figured Bass dataset. *Proceedings of the International Society for Music Information Retrieval Conference*. 640–646.

Ju, Y., S. Margot, C. McKay, and I. Fujinaga. 2020. Figured bass encodings for Bach chorales in various symbolic formats: A case study. *Music Encoding Conference Proceedings*. 71–74.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PUBLICATIONS (continued)

Ju, Y., S. Howes, C. McKay, N. Condit-Schultz, J. Calvo-Zaragoza, and I. Fujinaga. 2019. An interactive workflow for generating chord labels for homorhythmic music in symbolic formats. *Proceedings of the International Society for Music Information Retrieval Conference*. 862–869.

Cumming, J., C. McKay, J. Stuchbery, and I. Fujinaga. 2018. Methodologies for creating symbolic corpora of Western music before 1600. *Proceedings of the International Society for Music Information Retrieval Conference*. 491–498.

McKay, C., J. Cumming, and I. Fujinaga. 2018. jSymbolic 2.2: Extracting features from symbolic music for use in musicological and MIR research. *Proceedings of the International Society for Music Information Retrieval Conference*. 348–354.

Barbosa, J., C. McKay, and I. Fujinaga. 2015. Evaluating automated classification techniques for folk music genres from the Brazilian Northeast. *Proceedings of the 15th Brazilian Symposium on Computer Music*. 3–12.

McKay, C. 2013. jProductionCritic: An educational tool for detecting technical errors in audio mixes. *Proceedings of the International Society for Music Information Retrieval Conference*. 71–76.

McKay, C., and D. Bainbridge. 2011. A musical web mining and audio feature extraction extension to the Greenstone digital library software. *Proceedings of the International Society for Music Information Retrieval Conference*. 459–464.

Angeles, B., C. McKay, and I. Fujinaga. 2010. Discovering metadata inconsistencies. *Proceedings of the International Society for Music Information Retrieval Conference*. 195–200.

McKay, C., J. A. Burgoyne, J. Hockman, J. B. L. Smith, G. Vigliensoni, and I. Fujinaga. 2010. Evaluating the genre classification performance of lyrical features relative to audio, symbolic and cultural features. *Proceedings of the International Society for Music Information Retrieval Conference*. 213–218.

McKay, C., and I. Fujinaga. 2010. Improving automatic music classification performance by extracting features from different types of data. *Proceedings of the ACM SIGMM International Conference on Multimedia Information Retrieval*. 257–266.

Vigliensoni, G., C. McKay, and I. Fujinaga. 2010. Using jWebMiner 2.0 to improve music classification performance by combining different types of features mined from the web. *Proceedings of the International Society for Music Information Retrieval Conference*. 607–612.

McKay, C., and I. Fujinaga. 2009. jMIR: Tools for automatic music classification. *Proceedings of the International Computer Music Conference*. 65–68.

McKay, C., J. A. Burgoyne, J. Thompson, and I. Fujinaga. 2009. Using ACE XML 2.0 to store and share feature, instance and class data for musical classification. *Proceedings of the International Society for Music Information Retrieval Conference*. 303–308.

Thompson, J., C. McKay, J. A. Burgoyne, and I. Fujinaga. 2009. Additions and improvements to the ACE 2.0 music classifier. *Proceedings of the International Society for Music Information Retrieval Conference*. 435–440.

McKay, C., and I. Fujinaga. 2008. Combining features extracted from audio, symbolic and cultural sources. *Proceedings of the International Conference on Music Information Retrieval*. 597–602.

McKay, C., and I. Fujinaga. 2007. jWebMiner: A web-based feature extractor. *Proceedings of the International Conference on Music Information Retrieval*. 113–114.

McEnnis, D., C. McKay, and I. Fujinaga. 2006. jAudio: Additions and improvements. *Proceedings of the International Conference on Music Information Retrieval*. 385–386.

McEnnis, D., C. McKay, and I. Fujinaga. 2006. Overview of OMEN. *Proceedings of the International Conference on Music Information Retrieval*. 7–12.

McKay, C., D. McEnnis, and I. Fujinaga. 2006. A large publicly accessible prototype audio database for music research. *Proceedings of the International Conference on Music Information Retrieval*. 160–163.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PUBLICATIONS (continued)

McKay, C., and I. Fujinaga. 2006. jSymbolic: A feature extractor for MIDI files. *Proceedings of the International Computer Music Conference.* 302–305.

McKay, C., and I. Fujinaga. 2006. Musical genre classification: Is it worth pursuing and how can it be improved?. *Proceedings of the International Conference on Music Information Retrieval*. 101–106.

Fiebrink, R., C. McKay, and I. Fujinaga. 2005. Combining D2K and JGAP for efficient feature weighting for classification tasks in music information retrieval. *Proceedings of the International Conference on Music Information Retrieval.* 510–513

McEnnis, D., C. McKay, I. Fujinaga, and P. Depalle. 2005. jAudio: A feature extraction library. *Proceedings of the International Conference on Music Information Retrieval*. 600–603.

McKay, C., R. Fiebrink, D. McEnnis, B. Li, and I. Fujinaga. 2005. ACE: A framework for optimizing music classification. *Proceedings of the International Conference on Music Information Retrieval*. 42–49.

McKay, C., D. McEnnis, R. Fiebrink, and I. Fujinaga. 2005. ACE: A general-purpose classification ensemble optimization framework. *Proceedings of the International Computer Music Conference*. 161–164.

McKay, C., and I. Fujinaga. 2005. Automatic music classification and the importance of instrument identification. *Proceedings of the Conference on Interdisciplinary Musicology*. CD-ROM.

Sinyor, E., C. McKay, R. Fiebrink, D. McEnnis, and I. Fujinaga. 2005. Beatbox classification using ACE. *Proceedings of the International Conference on Music Information Retrieval*. 672–675.

McKay, C., and I. Fujinaga. 2004. Automatic genre classification as a study of the viability of high-level features for music classification. *Proceedings of the International Computer Music Conference*. 367–370.

McKay, C., and I. Fujinaga. 2004. Automatic genre classification using large high-level musical feature sets. *Proceedings of the International Conference on Music Information Retrieval.* 525–530.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PRESENTATIONS (NO PROCEEDINGS)

McKay, C., and M. E. Cuenca. 2024. Harmonious research collaborations in computational musicology. Presented at the *Digital Technologies Applied to Music Research Conference*.

McKay, C., and J. Cumming. 2024. New tools for old questions: Applying feature extraction and machine learning to Rodin's "The Josquin Canon at 500". Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., and J. Cumming. 2024. Using feature-based composer classification to test musicological evidence for Josquin attribution. *Extended Abstracts for the Late-Breaking Demo Session of the 25th International Society for Music Information Retrieval Conference.*

Cuenca, M. E., and C. McKay. 2023. The stylistic origin of the anonymous 16th century masses transcribed by Siro Cisilino (1903-1987) at the Fondazione Cini: A statistical and machine learning approach. Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., J. Cumming, and I. Fujinaga. 2023. Rhythmic, melodic and vertical n-gram features as a means of studying symbolic music computationally. Presented at the *Digital Humanities Conference*.

Cuenca, M. E., and C. McKay. 2022. Musical influences on the masses of Pedro Fernández Buch (c. 1574- 1648): A stylistic comparison using statistical analysis. Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., and J. Cumming. 2022. Summary features as the basis for content-based queries of symbolic music repositories. Presented at the *Congress of the International Association of Music Libraries, Archives and Documentation Centres*.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PRESENTATIONS (NO PROCEEDINGS) (continued)

Cuenca, M. E., and C. McKay. 2021. Influencias musicales en las misas y motetes de Cristóbal de Morales y Francisco Guerrero: Una aproximación estadística. Presented at the *Congreso de la Sociedad Española de Musicología*.

McKay, C., and M. E. Cuenca. 2021. Musical influences on the masses and motets of Cristóbal de Morales and Francisco Guerrero: A statistical approach. Presented at the *Medieval and Renaissance Music Conference*.

Rodriguez-Garcia, E., and C. McKay. 2021. *Ave festiva ferculis:* Exploring attribution by combining manual and computational analysis. Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., R. Adamian, J. Cumming, and I. Fujinaga. 2020. Exploring Renaissance music using n-gram aggregates to summarize local musical content. Presented at the *Medieval and Renaissance Music Conference*.

Cuenca, M. E., and C. McKay. 2019. Análisis estadístico de misas ibéricas renacentistas a través del software jSymbolic. Presented at the *El análisis musical actual: Marco teórico e interdisciplinariedad* conference.

Cuenca, M. E., and C. McKay. 2019. Exploring musical style in the anonymous and doubtfully attributed mass movements of the Coimbra manuscripts: A statistical approach. Presented at the *Medieval and Renaissance Music Conference*.

Hopkins, E., Y. Ju, G. Polins Pedro, C. McKay, J. Cumming, and I. Fujinaga. 2019. SIMSSA DB: Symbolic music discovery and search. Poster presentation at the *International Conference on Digital Libraries for Musicology*.

Ju, Y., G. Polins Pedro, C. McKay, E. Hopkins, J. Cumming, and I. Fujinaga. 2019. Enabling music search and analysis: A database for symbolic music files. Presented at the *Music Encoding Conference.*

McKay, C., E. Hopkins, G. Polins Pedro, Y. Ju, A. Kam, J. Cumming, and I. Fujinaga. 2019. A collaborative symbolic music database for computational research on music. Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., J. Cumming, and I. Fujinaga. 2019. Lessons learned in a large-scale project to digitize and computationally analyze musical scores. Presented at the *Digital Humanities Conference*.

Cumming, J., and C. McKay. 2018. Revisiting the origins of the Italian madrigal using machine learning. Presented at the *Medieval and Renaissance Music Conference.*

Fujinaga, I., J. Cumming, A. Hankinson, R. Krämer, C. McKay, P. Schubert, and J. Wild. 2017. Large-corpus music research. Presented at the *Congress of the International Musicology Society*.

McKay, C., A. Hankinson, J. Cumming, and I. Fujinaga. 2017. A database model for computational music research. Poster presented at the *International Workshop on Digital Libraries for Musicology*.

McKay, C., J. Cumming, and I. Fujinaga. 2017. Characterizing composers using jSymbolic2 features. *Extended Abstracts for the Late-Breaking Demo Session of the 18th International Society for Music Information Retrieval Conference.*

McKay, C., T. Tenaglia, J. Cumming, and I. Fujinaga. 2017. Using statistical feature extraction to distinguish the styles of different composers. Presented at the *Medieval and Renaissance Music Conference*.

McKay, C., T. Tenaglia, and I. Fujinaga. 2016. jSymbolic2: Extracting features from symbolic music representations. *Extended Abstracts for the Late-Breaking Demo Session of the 17th International Society for Music Information Retrieval Conference*.

McKay, C., and I. Fujinaga. 2015. Building an infrastructure for a 21st-century global music library. *Extended Abstracts for the Late-Breaking Demo Session of the 16th International Society for Music Information Retrieval Conference*.

Fujinaga, I., and C. McKay. 2008. ACE: Autonomous Classification Engine. Presented at the *International Conference on Music Perception and Cognition*.

SELECTED PEER-REVIEWED ACADEMIC CONFERENCE PRESENTATIONS (NO PROCEEDINGS) (continued)

Fujinaga, I., J. A. Burgoyne, C. Lai, B. Li, C. McKay, and L. Pugin. 2007. Distributed Digital Music Archives and Libraries (DDMAL). Presented at the *Joint Conference of the Canadian Association of Music Libraries and the Association of Quebec Music Libraries*.

McKay, C., and I. Fujinaga. 2006. Style-independent computer-assisted exploratory analysis of large music collections. Presented at the *Joint Meeting of the American Musicological Society and the Society for Music Theory*.

McKay, C. 2005. Approaches to overcoming problems in interactive musical performance systems. Presented at the *McGill Graduate Students Society Symposium*.

McKay, C., and I. Fujinaga. 2005. The Bodhidharma system and the results of the MIREX 2005 symbolic genre classification contest. Poster presented at the *International Conference on Music Information Retrieval MIREX Session*.

SELECTED INTERNATIONAL INVITED PRESENTATIONS AND PUBLICATIONS

McKay, C. 2024. SIMSSA DB and related human factors. Presented at the *Creation Of eaRly muSIc CorporA (CORSICA) Workshop*.

McKay, C. 2021. Exploring composer attribution in motet cycles using machine learning. *Gaffurius Codices Online*, Schola Cantorum Basiliensis.

McKay, C. 2021. What can MIR teach us about music? What can music teach us in MIR?. Presented at the *Women in Music Information Retrieval (WiMIR) Workshop*.

McKay, C. 2020. Digital musicology via jSymbolic and machine learning. *Invited Speaker*. Brandeis University, Waltham, USA. 3 March 2020.

McKay, C. 2019. SIMSSA DB: A collaborative musicological research database. Presented at the *Digital Humanities Conference Digital Musicology Study Group*.

McKay, C., and M. E Cuenca. 2019. CRIM, machine learning and big data: A case study on the Coimbra manuscripts. Presented at the *Counterpoints: Renaissance Music and Scholarly Debate in the Digital Domain* conference.

Cumming, J., and C. McKay. 2018. Contrapuntal style: Josquin Desprez vs. Pierre de la Rue. Presented at the *Conference on Pierre de la Rue and Music at the Habsburg-Burgundian Court*.

McKay, C. 2018. jSymbolic: A software application for music information retrieval and analysis. *Invited Speaker*. CESEM, Nova University of Lisbon, Lisbon, Portugal. 8 March 2018.

McKay, C. 2018. Performing statistical musicological research using jSymbolic and machine learning. Presented at *The Anatomy of Polyphonic Music around 1500 International Conference*.

McKay, C. 2018. SIMSSA DB: A database for computational musicological research. Presented at the *Congress of the International Association of Music Libraries, Archives and Documentation Centres SIMSSA Workshop*.

McKay, C. 2012. Classifying music with jMIR. *Invited Speaker*. Department of Languages and Science of Computation, University of Malaga, Malaga, Spain. 10 January 2012.

McKay, C., J. A. Burgoyne, and I. Fujinaga. 2009. jMIR and ACE XML: Tools for performing and sharing research in automatic music classification. Presented at the *ACM/IEEE Joint Conference on Digital Libraries Workshop on Integrating Digital Library Content with Computational Tools and Services*, University of Texas, Austin, USA. 19 June 2009.

McKay, C., J. Frank, and J. Turel. 2007. Audiofile: No box, no limit. Presented at *Pop & Policy 2007: Music Fast Forward*.

SELECTED LOCAL INVITED ACADEMIC PRESENTATIONS

McKay, C. 2024. LinkedMusic, SIMSSA DB and feature-based musicology. Presented at the *CIRMMT Workshop on GLAM-MIR (Galleries, Libraries, Archives, Museums and Music Information Research)*, McGill University, Montreal, Canada. 6 April 2024.

McKay, C. 2024. Using machine learning and statistical analysis to make musical discoveries. Presented at *Honours Science Talks*. Marianopolis College, Montreal, Canada. 8 February 2024.

McKay, C., and R. Mizrahi. 2023. SIMSSA DB: Go Jump in the (Data) Lake. Presented at the *LinkedMusic Workshop*, McGill University, Montreal, Canada. 21 October 2023.

McKay, C. 2023. Feature extraction, feature-indexed databases, features in musicology and evolution with feature; Also, features. Presented at the *CIRMMT Scientific Event*, McGill University, Montreal, Canada. 25 May 2023.

McKay, C. 2022. SIMSSA DB: An introduction. Presented at the *CIRMMT LinkedMusic Workshop on Music Databases*, McGill University, Montreal, Canada. 18 November 2022.

Cumming, J., C. McKay, N. Nápoles López, and S. Margot. 2019. Contrapuntal style: Pierre de la Rue vs. Josquin Des Prez. Presented at the *CIRMMT Workshop on SIMSSA (Single Interface for Music Score Searching and Analysis)*, McGill University, Montreal, Canada. 21 Saturday 2019.

Hopkins, E., G. Polins Pedro, Y. Ju, C. McKay, J. Cumming, and I. Fujinaga. 2019. SIMSSA DB: A brief overview of the data model. Presented at the *DACT (Digital Analysis of Chant Transmission) Workshop*, McGill University, Montreal, Canada. 21 Saturday 2019.

McKay, C., and R. Adamian. 2019. jSymbolic in 2019: Updates and improvements. Presented at the *CIRMMT Workshop on SIMSSA (Single Interface for Music Score Searching and Analysis)*, McGill University, Montreal, Canada. 21 Saturday 2019.

McKay, C. 2018. jSymbolic: Demonstration and tutorial. Presented at the *CIRMMT Workshop on Digital Musicology,* McGill University, Montreal, Canada. 27 April 2018.

McKay, C., J. Cumming, J. Stuchbery, and I. Fujinaga. 2018. Methodologies for creating symbolic early music corpora for musicological research. Presented at the *CIRMMT Workshop on Digital Musicology,* McGill University, Montreal, Canada. 27 April 2018.

McKay, C. 2013. Applying music information retrieval techniques to audio production education. Presented at the *CIRMMT Research Seminar*. McGill University, Montreal, Canada. 8 September 2013.

McKay, C. 2013. Combining symbolic and audio musical data: A music classification perspective. Presented at the *CIRMMT Workshop on Symbolic Music Processing, Semantic Audio, and Music Information Retrieval,* McGill University, Montreal, Canada. 15 November 2013.

McKay, C. 2009. Using timbre to predict musical genre: Promising solution or dead end?. Presented at the *CIRMMT Workshop on Timbre,* McGill University, Montreal, Canada. 11 October 2009.

McKay, C. 2008. Combining feature types with jMIR. Presented at the *Montreal Music and Machine Learning Workshop,* Université de Montréal, Montreal, Canada. 14 November 2008.

THESES

McKay, C. 2010. Automatic music classification with jMIR. *Ph.D. Dissertation*. McGill University, Canada.

McKay, C. 2004. Automatic genre classification of MIDI recordings. *M.A. Thesis*. McGill University, Canada.

McKay, C. 2002. SpeciesChecker: A system for automatically proofreading species counterpoint. *Undergraduate Thesis*. University of Guelph, Canada.

McKay, C., and T. M. Luong. 1998. Localization of mobile robots using magnetic fields. *Undergraduate Thesis*. McGill University, Canada.

PERSONAL INTERESTS

Cycling, ice skating, wall climbing, jazz & blues guitar, computer music, cooking, tea/wine/whiskey tasting, photography, poetry, astrophysics, artificial intelligence, travel.

References available upon request.