

Curriculum Vitae

Martha E. Thomae Elías

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Education

2017–present: McGill University, Montréal, Canada.
PhD candidate in Music Technology

2015–2017: McGill University, Montréal, Canada.
M.A. in Music Technology. Thesis on “Automatic Scoring Up of Mensural Music Using Perfect Mensurations, 1300–1550” supervised by Prof. Ichiro Fujinaga.

2013: Universidad del Valle de Guatemala, Guatemala City, Guatemala.
B.S. in Mathematics

2012: Universidad Francisco Marroquín, Guatemala City, Guatemala.
Diploma in Art History: Medieval and Islamic Art

Academic Experience

2015–present	Research Assistant, “Distributed Digital Musical Archives and Libraries” Laboratory. Department of Music Research, Schulich School of Music, McGill University.
Fall 2018	Teaching Assistant, “MUMT 306: Music & Audio Computing I.” McGill University.
Winter 2018	Teaching Assistant, “MUAR 211: The Art of Listening.” McGill University.
Fall 2017	Teaching Assistant, “MUMT 202: Fundamentals of New Media.” McGill University.
First term, 2014	Teaching Assistant, “Mathematical Models 1.” Universidad del Valle de Guatemala.
First term, 2011	Grader, “Complementary Subjects in Mathematics” (basic contents: partial differential equations and complex functions). Universidad del Valle de Guatemala.
First term, 2009	Grader, “Linear Algebra 1” and “Physics 2.” Universidad del Valle de Guatemala. Teaching Assistant, “Physics 2 – Laboratory.” Universidad del Valle de Guatemala.
Second term, 2008	Grader, “Physics 1.” Universidad del Valle de Guatemala.

Professional Experience

2007–2014	Personal tutor: Math, Statistics, and Physics.
2013	Grader, “Mathematics Projects for the <i>International Baccalaureate</i> Program.” Centro Escolar Campoalegre, Guatemala City, Guatemala.
2012	Substitute teacher “Physics,” Ninth Grade. Centro Escolar Campoalegre, Guatemala City, Guatemala.

Invited Talks / Conference Presentations

- November 27, 2019 “Digitization and Encoding of the Musical Contents of a Set of Guatemalan Choirbooks.” Invited Lecture for Multimedia Systems (GLIS 633) course, McGill University, Montréal, Québec, Canada.
- November 09, 2019 “The Mensural Scoring-up Tool.” Presented at the Digital Libraries for Musicology, National Library of The Netherlands, The Hague, The Netherlands.
- September 21, 2019 “OMR for Mensural Notation: Looking at a Guatemalan Music Manuscript.” Presented at the SIMSSA Workshop XIX, CIRMMT, McGill University, Montréal, Québec, Canada.
- July 10, 2019 “Taking Digital Humanities to Guatemala, a Case Study in the Preservation of Colonial Musical Heritage.” Presented at the Digital Humanities Conference, Tivoli Vredenburg, Utrecht, The Netherlands.
- June 02, 2019 “Guatemalan Manuscripts: Digitization Issues and Future Challenges in the Adaption of the OMR Workflow for Mensural Music.” Presented at the SIMSSA Workshop XVIII, Department of Musicology, University of Vienna, Vienna, Austria.
- May 31, 2019 “Application of Music-Encoding Technologies to Guatemalan Choirbooks, Facilitating Preservation and Musicological Studies of the Colonial Repertoire.” Presented at the Music Encoding Conference, University of Vienna, Vienna, Austria.
- March 18, 2019 “Preservation of the Colonial Musical Heritage of Guatemala through Digitization and Music Encoding Technologies.” Presented at the Association of Canadian Archivists McGill Student Chapter’s annual colloquium: Archival Outreach & Hidden Collections, McLennan-Redpath Library Complex, McGill University, Montréal, Québec, Canada.
- December 1, 2018 “Guatemalan Manuscript Digitization Project.” Presented at the SIMSSA Workshop XVII: Infrastructure for Music Discovery, CIRMMT, McGill University, Montréal, Québec, Canada.
- July 6, 2018 “Automatic Scoring up of Parts in Mensural Notation.” Presented at the Medieval and Renaissance Music Conference, Maynooth University, Maynooth, Ireland.
- May 23, 2018 “Automatic Scoring up of Music in Mensural Notation.” Presented at the Music Encoding Conference, Maryland University, College Park, Maryland, US.
- April 27, 2018 “Automatic Scoring up of Mensural Parts.” Presented at the Digital Musicology Workshop, CIRMMT, McGill University, Montréal, Québec, Canada.
- August 7, 2017 “Automatic Scoring-up Tool for Mensural Music.” Presented at the SIMSSA Workshop XII, CIRMMT, McGill University, Montréal, Québec, Canada.
- May 22, 2017 “A Methodology for Encoding Mensural Music: Introducing the Mensural MEI Translator.” Invited talk at the Music Technology Group, Universitat Pompeu Fabra, Barcelona, Spain.

- May 17, 2017 “A Methodology for Encoding Mensural Music: Introducing the Mensural MEI Translator.” Presented at the Music Encoding Conference, Université de Tours, Tours, France.
- September 24, 2016 “Digital Encoding of Mensural Music.” Presented at the SIMSSA Workshop X, CIRMMT, McGill University, Montréal, Québec, Canada.

Publications

- Thomae, Martha E. Julie E. Cumming, and Ichiro Fujinaga. “The Mensural Scoring-up Tool.” In 6th International Conference on Digital Libraries for Musicology, pp. 9–19. ACM, 2019.
- Thomae Elias, Martha. “Automatic Scoring Up of Mensural Music Using Perfect Mensurations, 1300-1550.” Master’s Thesis, McGill University, 2017.

Honors and Awards

- 2018–present FRQSC Grant (\$21,000 CAD/year for four years).
Fonds de Recherche Société et Culture du Québec, Canada.
- June–August 2019 Graduate Mobility Award (\$3,000 CAD).
Graduate and Postdoctoral Studies, McGill University, Canada.
- June–August 2019 CIRMMT Inter-Centre Research Exchange Funding (\$2,500 CAD).
Centre for Interdisciplinary Research in Music Media and Technology, Canada.
- June 2019 Best Paper Award: “Application of Music-Encoding Technologies to Guatemalan Choirbooks, Facilitating Preservation and Musicological Studies of the Colonial Repertoire.” Music Encoding Conference, Vienna.
- July 2019 CIRMMT Travel Award (\$1,000 CAD) for conference presentation.
Centre for Interdisciplinary Research in Music Media and Technology, Canada.
- July 2018 CIRMMT Travel Award (\$1,000 CAD) for conference presentation.
Centre for Interdisciplinary Research in Music Media and Technology, Canada.
- May 2018 Graduate Travel Award (\$500 CAD) for conference presentation.
McGill University, Canada.
- 2017–2018 Grad Excellence Award – Music Research.
McGill University, Canada.
- 2013 Honors mention for undergraduate thesis.
Universidad del Valle de Guatemala, Guatemala.
- 2007, 2010 Academic distinction.
Universidad del Valle de Guatemala, Guatemala.
- 2007–2009 Blackburn Scholarship.
Universidad del Valle de Guatemala, Guatemala.

Affiliations

- 2017–2019 Centre for Interdisciplinary Research in Music Media and Technology, Canada.
Student coordinator of the Research Axis 2: Music information research.
- 2016–present Centre for Interdisciplinary Research in Music Media and Technology, Canada.
Student member.
- 2016–present Music Encoding Initiative (MEI).
University of Virginia Library, USA.
Member and collaborator of the Mensural MEI interest group.
- 2015–present Distributed Digital Music Archives & Libraries Lab.
McGill University, Canada.
Graduate Student.
- 2015–present Single Interface for Music Score Searching and Analysis project.
McGill University, Canada.
Graduate Student.

Other Activities

- 2011 Choir member in Gluck’s “Orfeo ed Euridice” opera, directed by Massimo Pezzutti. Universidad Internaciones, Guatemala City, Guatemala.
- 2010–2012 Opera singing training with soprano Karin Rademann.
Guatemala City, Guatemala.
- 2009 Workshop in Music Reading.
Universidad Internaciones, Guatemala City, Guatemala.
- 2010, 2012 Basic training in violin and piano

Computer Experience

Programming languages: Python, Java, Max/MSP, MATLAB

Music encoding formats: LilyPond, MEI

Document markup language: LaTeX

Languages

Spanish: native language

English: excellent

German: basics

French: basics