

Alberto Acquilino

✉ alberto.acquilino@mail.mcgill.ca

🌐 albertoacquilino.github.io

☎ +1 (438) 530 6538

🌐 linkedin.com/in/acquilino-alberto

🔍 **Google Scholar:** scholar.google.ca/citations?user=kRDY274AAAAJ

Education

- 2020 – Present **Ph.D. in Music Technology**, McGill University, Montreal, Canada
Affiliation: Computational Acoustic Modeling Laboratory
Supervisor: Gary Scavone
- 2021 – 2022 **Executive Graduate Certificate in Arts and Innovation**, Global Leaders Institute
Honours with Distinction
Curating Institutions: McGill University, Harvard University, Duke University, New York University, Georgetown University, Longy School of Music of Bard College, El Sistema USA
- 2017 – 2019 **Master’s Degree in Engineering, Energy and Solar Buildings**, Université Savoie
Mont Blanc, France
Honours with Distinction
- 2016 – 2019 **Master’s Degree in Energy and Nuclear Engineering**, Università degli Studi di
Genova, Italy
Honours with Distinction
- 2010 – 2016 **Bachelor’s Degree in Mechanical Engineering**, Università degli Studi di Genova,
Italy
Honours
- 2005 – 2011 **Master’s Equivalent in Music Performance**, “Niccolò Paganini” Conservatory of
Music, Genoa, Italy
Honours

Research Interests

Music Technology; Music Education; Acoustics; Digital Signal Processing; Music & AI.

Research Experience

- 2020 – 2023 **Research Assistant**, Computational Acoustic Modeling Lab, McGill University, Montreal, Canada
- 2022 **Research Assistant**, Hearing Health Project, McGill University, Montreal, Canada
- 2020 **Research Scientific Consultant**, Reliability and Risk Engineering Lab, ETH Zürich, Zurich, Switzerland
- 2018 – 2019 **Research Intern**, Reliability and Risk Engineering Lab and Separation Processes Lab, ETH Zürich, Zurich, Switzerland

Publications

Refereed Journal Articles:

- 2022 **Acquilino, A.**, & Scavone, G. (2022). Current state and future directions of technologies for music instrument pedagogy. *Frontiers in Psychology*, 13, Article 835609. DOI
- 2022 Becattini, V., Gabrielli, P., Antonini, C., Campos, J., **Acquilino, A.**, Sansavini, G., & Mazzotti, M. (2022). Carbon dioxide capture, transport and storage value chains: Optimal economic and environmental performance of infrastructure rollout. *International Journal of Greenhouse Gas Control*, 117, Article 103635. DOI
- 2020 Gabrielli, P., **Acquilino, A.**, Siri, S., Bracco, S., Sansavini, G., & Mazzotti, M. (2020). Optimization of low-carbon multi-energy systems with seasonal geothermal energy storage: The Anergy Grid of ETH Zurich. *Energy Conversion and Management: X*, 8, Article 100052. DOI

Refereed Conference Papers:

- 2023 **Acquilino, A.**, Puranik, N., Fujinaga, I., & Scavone, G. (2023). A dataset and baseline for automated assessment of timbre quality in trumpet sound. In *Proceedings of the 24th International Society of Music Information Retrieval Conference* (pp. 684–691).
- 2023 **Acquilino, A.**, Puranik, N., Fujinaga, I., & Scavone, G. (2023). Detecting efficiency in trumpet sound production: Proposed methodology and pedagogical implications. In *Proceedings of the 5th Stockholm Music Acoustic Conference*.

- 2021 Becattini, V., Gabrielli, P., **Acquilino, A.**, Antonini, C., Mazzotti, M., & Sansavini, G. (2021). Design and multi-objective optimization of CO₂ value chains for waste to energy sector: A Swiss case study. In *Proceedings of the 15th Greenhouse Gas Control Technologies Conference*. DOI

Presentations

Invited Presentations:

- 2024 Invited by the Italian Consulate to present during the “Stati Generali della Ricerca Italiana” at the Italian Institute of Culture, Montreal, Canada.
Title: “AI and Music: Technologies for Music Education”
- 2024 Presented at the Groupe de Recherche en Acoustique, École de Technologie Supérieure (ÉTS), Montreal, Canada.
Title: “Real-Time Computational Feedback Systems for Enriched Classical Music Education”
- 2023 Presented at Tomlinson Talks, McGill University, Montreal, Canada.
Title: “Technology Enhanced Music Education”
- 2023 Presented at the Brass Pedagogic Seminar of the Blekinge International Brass Academy, Karlskrona, Sweden.
Title: “Technologies for Musical Instrument Pedagogy: Potential and Limitations”

Conference Presentations:

- 2024 Presented at the CIRMMT-OICRM-BRAMS Student Symposium.
Title: “Perceptual Dimensions of Trumpet Efficiency”
- 2023 Presented at the CIRMMT-OICRM-BRAMS Student Symposium.
Title: “Assistive Technology for Trumpet Pedagogy”
- 2023 Presented at the 5th Stockholm Music Acoustic Conference, Sweden.
Title: “Detecting Efficiency in Trumpet Sound Production: Proposed Methodology and Pedagogical Implications”
- 2023 Presented at the International Society of Music Information Retrieval Conference, Milan, Italy.
Title: “A Dataset and Baseline for Automated Assessment of Timbre Quality in Trumpet Sound”

- 2022 Presented at the Lunigiana International Music Festival.
Title: “Current State and Future Directions of Technologies for Music Pedagogy”
- 2022 Presented at the Lerici Music Festival.
Title: “Current State and Future Directions of Technologies for Music Pedagogy”

Peer Review Activities

- 2024 – Present **Reviewer**, International Journal of Music Education
- 2024 – Present **Reviewer**, EAI International Conference: ArtsIT, Interactivity, and Game Creation

Teaching Experience

- 2024 – Present **Instructor**, Global Leaders Institute
 Course: Emerging Technologies for Arts Innovation
- 2023 – 2024 **Lecturer**, McGill University, Montreal, Canada
 Music Technology Class MUMT 202: Fundamentals of New Media
- 2023 – 2024 **Invited Teacher**, McGill University, Montreal, Canada
 Courses: MUIT 203: Brass Techniques; MUIT 302: Advanced Wind Techniques
- 2022 **Invited Teacher and Conductor**, Sistema New Brunswick, centres of Moncton and Saint John, Canada
- 2020 – 2022 **Teaching Assistant**, McGill University, Montreal, Canada
 Music Technology Class MUMT 203: Introduction to Digital Audio
- 2014 – 2016 **Music Performance Teacher**, Pro Musica Association, Italy
- 2015 **Music Teacher**, Maria Ausiliatrice Middle School, Genoa, Italy
- 2013 – 2014 **Music Performance Teacher**, Banda Musicale of Arenzano, Arenzano, Italy

Student Supervision

- 2024 – Present **Lead Mentor**, Google Summer of Code, Google LLC
 Organization: International Neuroinformatics Coordinating Facility (INCF)
- 2024 **Supervisor, Student Internship**, McGill University, Montreal, Canada
 Supervised a Vanier College student intern specializing in website design

2022 **Co-supervisor, Summer Intern**, Computational Acoustic Modeling Lab, McGill University, Montreal, Canada

Service and Leadership

2024 **Co-founder and Organizer**, Tech-Enhanced Music Education Symposium, Montreal, Canada

2023 – Present **Member, Academic Board**, Global Leaders Institute

2023 – 2024 **Organizer**, CIRMMT-OICRM-BRAMS Student Symposium, Montreal, Canada
Theme (2023): "Beyond the Beats: Breaking Boundaries in Musical Research and Innovation"
Theme (2024): "Harmony of Horizons: Facilitating Interdisciplinary Dialogue in Musical Research"

2022 – 2024 **Student Representative**, Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT), Montreal, Canada
Roles: CIRMMT Board Member; Executive Committee Member; Chair of the Student Executive Committee

2022 **Organizer**, CIRMMT International Conference: "Le son du future/Le future du son", Montreal, Canada

2021 **Volunteer**, International Symposium on Performance Science, Montreal, Canada

2018 – 2020 **Founder and CEO**, Zenarmonics, Italy
Music educational technology startup

Grants and Fellowships

2023 – 2025 **Doctoral Research Fellowship**, Fonds de Recherche du Québec (58,334 CAD)

2021 – 2022 **Global Leaders Program Scholarship**, Global Leaders Institute (15,500 USD)

2020 – 2023 **Richard H. Tomlinson Doctoral Fellowship**, McGill University (105,000 CAD)

2021 **Knowles Hardware Grant**, Funding for hardware acquisition

2018 **Study Award**, Rotary Club Genoa (3,000 EUR)

2017 – 2018 **Erasmus Plus Scholarship** (3,338 EUR)

2017 **Vinci Fellowship**, University of Genoa (900 EUR)

Awards and Honors

- 2024 – 2025 **Student Award**, Centre for Interdisciplinary Research in Music Media and Technology (2,700 CAD)
- 2024 **Student Engagement Award**, McGill University (1,500 CAD)
- 2023 **Graduate Excellence Award**, McGill University (5,000 CAD)
- 2023 **Best Presentation Award**, CIRMMT-OICRM-BRAMS Student Symposium (500 CAD)
- 2022 **Stakeholder Prize for Community Impact**, Innovation Exchange Residence, Global Leaders Institute, West Palm Beach, Florida
- 2019 **Call for Startup Winner**, International EXPO on Artificial Intelligence C1A0, Digital Tree (3,000 EUR)
- 2004 **1st Prize**, National Trumpet Competition, Santa Margherita Ligure, Italy

Professional Development and Certifications

- 2021 **Certificate of Completion, Research Ethics**, Tri-Council Policy Statement, Canada
Completed course on ethical conduct for research involving humans
- 2018 **Business Creation Engineering and Entrepreneurship Workshops**, Swiss Innovation Agency Innosuisse, Zurich, Switzerland
- 2016 **Blekinge International Brass Academy**, Blekinge, Sweden
- 2014 – 2015 **Advanced Music Performance Course**, International Music Academy, Rome, Italy

Performance and Recording Experience

- 2022 **Invited Performer**, New Brunswick Youth Orchestra, Canada
- 2022 **Recording Artist**, Album "1995" by Giovanni Louis
- 2018 – 2019 **Musician**, Associazione Filarmonica Città di Chiavari, Chiavari, Italy
- 2018 **Musician**, Dem'Art Association, Italy
- 2017 – 2021 **Conductor**, Banda Musicale Città di Voltri Wind Band, Genoa, Italy
- 2017 **Recording Artist**, Album "En El Corredor" by Alfonso Vidales

- 2017 **Conductor**, Orchestra for the Visit of Pope Francis, Genoa, Italy
- 2016 **Recording Artist**, Album "*Patchwork*" by the Big Borgo Band
- 2014 **Musician**, Sanremo Symphony Orchestra, Sanremo, Italy
- 2011 – 2016 **Musician**, Teatro Scalzo Theater Company
Performed at international festivals in Italy, France, Switzerland, Germany, Romania.

Languages

Italian (Native), English (Professional Proficiency), French (Intermediate), Portuguese (Beginner), German (Beginner)