

Curriculum Vitae

Gabriel Vigliensoni-Martin

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Profile

I have been professionally involved in popular music production, performance, and sound recording for several record labels and artists of diverse musical genres. The experience and the new music economy landscape created a desire to better understand the changing ways in which music is now created, distributed, and enjoyed. This desire led me to pursue a Ph.D. in Music Technology at McGill University. My main research interests are music production and sound engineering, music recommendation and listening behaviour, and new interfaces for musical expression, production, and synthesis.

Education

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| 2011–2017 | PH.D. IN MUSIC TECHNOLOGY
McGill University
Thesis: “Evaluating the performance improvement of a music recommendation model by using user-centric features”
Supervisor: Prof. Ichiro Fujinaga |
| 2009–2011 | M.A. IN MUSIC TECHNOLOGY
McGill University
Thesis: “Touch-less gestural control of concatenative sound synthesis”
Supervisor: Prof. Marcelo M. Wanderley |
| 2000–2004 | B.A. IN ARTS WITH CONCENTRATION IN SOUND SCIENCES
Universidad de Chile |

Experience

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| 2017–PRESENT | POSTDOCTORAL FELLOW. DEPARTMENT OF MUSIC RESEARCH, SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY |
| 2017–2018 | RESEARCHER. APPLIED ACOUSTICS SYSTEMS (AAS)

Tuning of a physical model of acoustic environment plugin. Project between Applied Acoustics Systems and McGill University, funded by an NSERC Engage 2 Grant |
| 2012–PRESENT | LECTURER. “MUSIC AND THE INTERNET” AND “NEW MEDIA PRODUCTION”. SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY |
| 2011–2017 | RESEARCH ASSISTANT. “SINGLE INTERFACE FOR MUSIC SCORE SEARCHING AND ANALYSIS” PROJECT. DEPARTMENT OF MUSIC RESEARCH, SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY |
| 2013–2015 | RESEARCH ASSISTANT. “CENTRE DE RECHERCHE SUR L'INTERPRÉTATION AU CLAVECIN” PROJECT. DEPARTMENT OF MUSIC RESEARCH, SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY |

2010–2011	RESEARCH ASSISTANT. “OPTICAL MUSIC RECOGNITION FOR PLAINCHANT” PROJECT. DEPARTMENT OF MUSIC RESEARCH, SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY
2004–2009	CHAIR. SOUND ENGINEERING PROGRAM. ESCUELA DE COMUNICACIÓN, INSTITUTO PROFESIONAL DUOCUC, SANTIAGO DE CHILE
2008–2010	CTO. ARMABLE ONLINE RADIO, SANTIAGO DE CHILE
2003–PRESENT	M-POWERED ARTIST, M-AUDIO INTERNATIONAL (http://www.m-audio.com/artists/profile/gabriel-vigliensoni)
2000–2008	RECORDING ENGINEER. OJOPARLANTE SOUND RECORDING STUDIOS, SANTIAGO DE CHILE
2000–2004	LECTURER “PLASTICIDAD EN LA BANDA SONORA”. ESCUELA DE POSTGRADO, FACULTAD DE ARTES. UNIVERSIDAD DE CHILE, SANTIAGO DE CHILE
1995–1996	LECTURER “SOUND RECORDING TECHNIQUES”. ESCUELA DE MÚSICA, SOCIEDAD CHILENA DEL DERECHO DE AUTOR. SANTIAGO DE CHILE
1993–1996	SOUND ENGINEER. FUNDACIÓN CENTRO CULTURAL BALMACEDA 1215, SANTIAGO DE CHILE
1992–1993	SOUND TECHNICIAN. TELEVISIÓN NACIONAL DE CHILE, SANTIAGO DE CHILE

Publications

- Calvo-Zaragoza, J., F. Castellanos, G. Vigliensoni, and I. Fujinaga. 2018. Deep neural networks for document processing of music score images. *Applied Sciences*, 8(5), 654. DOI:10.3390/app8050654.
- Vigliensoni, G., J. Calvo-Zaragoza, and I. Fujinaga. 2018. An environment for machine pedagogy: Learning how to teach computers to read music. In *Proceedings of the Intelligent Music Interfaces for Listening and Creation workshop*.
- Vigliensoni, G. and I. Fujinaga. 2017. The music listening histories dataset. In *Proceedings of the 18th International Society for Music Information Retrieval Conference*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. One-step detection of background, staff lines, and symbols in medieval music manuscripts with convolutional neural networks. In *Proceedings of the 18th International Society for Music Information Retrieval Conference*.
- Barone, M., K. Dacosta, G. Vigliensoni, and M. Woolhouse. 2017. GRAIL: Database linking music metadata across artist, release, and track. In *Proceedings of the 4th International Digital Libraries for Musicology workshop*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. Music document layout analysis through machine learning and human feedback. In *Proceedings of the 12th IAPR International Workshop on Graphics Recognition*.
- Saleh, Z., K. Zhang, J. Calvo-Zaragoza, G. Vigliensoni, and I. Fujinaga. 2017. Pixel.js: Web-based pixel classification correction platform for ground truth creation. In *Proceedings of the 12th IAPR International Workshop on Graphics Recognition*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. Pixelwise classification for music document analysis. In *2017 Seventh International Conference on Image Processing Theory, Tools, and Applications*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. Pixel-wise binarization of musical documents with Convolutional Neural Networks. In *Proceedings of the 15th IAPR Conference on Machine Vision Applications*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. Staff-line detection on greyscale images with pixel classification. In *Proceedings of the 8th Iberian Conference on Pattern Recognition and Image Analysis*.
- Barone, M., K. Dacosta, G. Vigliensoni, and M. Woolhouse. 2017. GRAIL: A general recorded audio identity linker. Late breaking session *17th International Society for Music Information Retrieval Conference*.
- Calvo-Zaragoza, J., G. Vigliensoni, and I. Fujinaga. 2017. A unified approach towards automatic recognition of heterogeneous music documents. In *Proceedings of the Music Encoding Conference*.

- Calvo-Zaragoza, J., G. Vigiensoni, and I. Fujinaga. 2017. A machine learning framework for the categorization of elements in images of musical documents. In *Proceedings of the Third International Conference on Technologies for Music Notation and Representation*.
- Vigiensoni, G. and I. Fujinaga. 2016. Automatic music recommendation systems: Do demographic, profiling, and contextual features improve their performance?. In *Proceedings of the 17th International Society for Music Information Retrieval Conference*.
- Calvo-Zaragoza, J., G. Vigiensoni, and I. Fujinaga. 2016. Staff-line detection on greyscale images with pixel classification. Late breaking session *17th International Society for Music Information Retrieval Conference*.
- Calvo-Zaragoza, J., G. Vigiensoni, and I. Fujinaga. 2016. Document analysis for music scores via machine learning. *3rd International Digital Libraries for Musicology workshop*.
- Fujinaga, I., G. Vigiensoni, and H. Knox. 2015. The making of a computerized harpsichord for analysis and training. *International Symposium on Performance Science*.
- Barone, M., K. Dacosta, G. Vigiensoni, and M. Woolhouse. 2015. GMAIL: A Music Identity Space Collection and API. Late breaking session *16th International Society for Music Information Retrieval Conference*.
- Vigiensoni, G., and I. Fujinaga. 2014. Time-shift normalization and listener profiling in a large dataset of music listening histories. *Fourth annual seminar on cognitively based music informatics research*.
- Vigiensoni, G., and I. 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*.
- Vigiensoni, G., J. A. Burgoyne, and I. Fujinaga. 2013. Musicbrainz for the world: the Chilean experience. *Proceedings of the International Society for Music Information Retrieval Conference*. 131–6.
- Vigiensoni, G., G. Bulet, and I. Fujinaga. 2013. Optical measure recognition in common music notation. *Proceedings of the International Society for Music Information Retrieval Conference*. 125–30.
- Vigiensoni, G., and M. Wanderley. 2012. A quantitative comparison of position trackers for the development of a touch-less musical interface. In *Proceedings of the New Interfaces for Musical Expression Conference*.
- Hankinson, A., J. A. Burgoyne, G. Vigiensoni, A. Porter, J. Thompson, W. Liu, R. Chiu, and I. Fujinaga. 2012. Digital document image retrieval using optical music recognition. In *Proceedings of the International Society for Music Information Retrieval Conference*.
- Hankinson, A., J. A. Burgoyne, G. Vigiensoni, and I. Fujinaga. 2012. Creating a large-scale searchable digital collection from printed music materials. In *Proceedings of Advances in Music Information Research*.
- Vigiensoni, G. 2011. Touch-less gestural control of concatenative sound synthesis. Master's thesis, McGill University.
- Vigiensoni, G., J. A. Burgoyne, A. Hankinson, and I. Fujinaga. 2011. Automatic pitch detection in printed square notation. In *Proceedings of the International Society for Music Information Retrieval Conference*.
- Hankinson, A., G. Vigiensoni, J. A. Burgoyne, and I. Fujinaga. 2011. New Tools for Optical Chant Recognition. *International Association of Music Libraries Conference*, Dublin, Ireland.
- Burgoyne, J. A., R. Chiu, G. Vigiensoni, A. Hankinson, J. Cumming, and I. Fujinaga. 2011. Creating a fully-searchable edition of the Liber Usualis. *Medieval and Renaissance Music Conference*. Barcelona, España.
- Vigiensoni, G., and M. Wanderley. 2010. Soundcatcher: Explorations in audio-looping and time-freezing using an open-air gestural controller. In *Proceedings of the International Computer Music Conference*. 100–3.
- McKay, C., J. A. Burgoyne, J. Hockman, J. B. L. Smith, G. Vigiensoni, and I. 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.
- Vigiensoni, 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. In *Proceedings of the International Society for Music Information Retrieval Conference*. 607–12.

Datasets

- The Music Listening Histories Dataset (MLHD). 2017. Vigiensoni, G., and I. Fujinaga.
- Music Recommendation Dataset (KGRec-music). 2016. Oramas, S., V. C. Ostuni, and G. Vigiensoni. Licensed under Creative Commons CC BY-NC 3.0, except 3rd party data.
- Sound Recommendation Dataset (KGRec-sound). 2016. Oramas, S., V. C. Ostuni, and G. Vigiensoni. Licensed under Creative Commons CC BY-NC 3.0, except 3rd party data.

Awards

2017	BEST REVIEWER AWARD 18th INTERNATIONAL SOCIETY FOR MUSIC INFORMATION RETRIEVAL CONFERENCE
2016	BECA EXCELENCIA ACADÉMICA SOCIEDAD CHILENA DEL DERECHO DE AUTOR, CHILE
2018, 2016, 2014, 2011	CIRMMT TRAVEL AWARD CENTRE FOR INTERDISCIPLINARY RESEARCH ON MUSIC MEDIA AND TECHNOLOGY
2012	NEMISIG TRAVEL AWARD NORTHEASTERN MUSIC INFORMATICS SPECIAL INTEREST GROUP
2011–2015	BECA BICENTENARIO BECASCHILE, DOCTORAL STUDIES. COMISIÓN NACIONAL DE CIENCIA Y TECNOLOGÍA, CHILE
2011–2012	GRADUATE EXCELLENCE FELLOWSHIP SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY
2011	SEYMOUR SCHULICH SCHOLARSHIP SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY
2010	ISMIR STUDENT TRAVEL AWARD INTERNATIONAL SOCIETY FOR MUSIC INFORMATION RETRIEVAL
2014, 2012, 2011, 2010, 2009	GREAT AWARD SCHULICH SCHOOL OF MUSIC, MCGILL UNIVERSITY
2009–2010	MCGILL PROVOST'S GRADUATE FELLOWSHIP GRADUATE AND POSTDOCTORAL STUDIES OFFICE, MCGILL UNIVERSITY
2009–2011	BECA BICENTENARIO BECASCHILE, MASTERS STUDIES COMISIÓN NACIONAL DE CIENCIA Y TECNOLOGÍA, CHILE
1998	GOLD ALBUM. LUCYBELL by LUCYBELL INTERNATIONAL FEDERATION OF THE PHONOGRAPHIC INDUSTRY (IFPI)
1997	PLATINUM ALBUM. VIAJAR by LUCYBELL INTERNATIONAL FEDERATION OF THE PHONOGRAPHIC INDUSTRY (IFPI)
1996	PLATINUM ALBUM. PECES by LUCYBELL. INTERNATIONAL FEDERATION OF THE PHONOGRAPHIC INDUSTRY (IFPI)

Invited Talks / Presentations / Posters

March, 2018	Presentation	An environment for machine pedagogy: Learning how to teach computers to read music. <i>Intelligent Music Interfaces for Listening and Creation workshop</i> . Tokyo, Japan.
March, 2018	Workshop	Insertions into mediatic circuits. Eastern Bloc, Montréal, QC.
October, 2017	Presentation	Machine learning for everyone. Communications Department, Concordia University, Montréal, QC.
August, 2017	Presentation	Infrastructure for optical music recognition. SIMSSA Workshop XII. Schulich School of Music, McGill University, Montréal, QC.
May, 2017	Poster	Reconnaissance optique de la musique basée sur l'apprentissage machine à grande échelle pour des données de partitions musicales. <i>85e Congrès de l'Association Francophone Pour Le Savoir</i> . Montréal, QC.
April, 2017	Presentation	Machine learning for artists. Speculative life cluster. Milieux Institute for Arts, Culture and Technology at Concordia University, Montréal, QC.

March, 2017	Presentation	Discovering music listening patterns in last.fm scrobble data. Music Information, Retrieval, Acquisition, Preservation graduate seminar. Schulich School of Music, McGill University, Montréal, QC.
October, 2016	Presentation	Automatic music recommendation systems: do demographic, profiling, and contextual features improve their performance?. User-centric Music Information Retrieval graduate seminar. School of Information Studies, McGill University, Montréal, QC.
August, 2016	Poster	<i>17th International Society for Music Information Retrieval Conference</i> . New York City, NY.
February, 2016	Presentation	Automatic music recommendation systems: do demographic, profiling, and contextual features improve their performance?. Doctoral colloquium. Schulich School of Music, McGill University, Montréal, QC.
October, 2015	Presentation	Discovering music listening patterns in a large dataset of music listening logs. User-centric Music Information Retrieval graduate seminar. School of Information Studies, McGill University, Montréal, QC.
May, 2015	Presentation	An automated system for performing a figured bass realization with a live performer in real time. <i>International Conference of the Historical Keyboard Society of North America</i> , Montréal, QC.
March, 2015	Presentation	Discovering music listening patterns in a large dataset of music listening logs. Music Information, Retrieval, Acquisition, Preservation graduate seminar. Department of Music Research, McGill University, Montréal, QC.
October, 2014	Presentation	Discovering music listening patterns in a large dataset of music listening logs. Seminar in Interdisciplinary Studies I. English Department, Concordia University, Montréal, QC.
October, 2014	Presentation	La música no se detiene: en la búsqueda de la innovación en la nueva economía de la música. <i>Segundo Festival Internacional de Innovación Social</i> . Santiago, Chile.
October, 2014	Presentation	La música no se detiene: en la búsqueda de la innovación en la nueva economía de la música. Departamento de Música y Sonología, Facultad de Artes, Universidad de Chile.
October, 2014	Poster	Vigliensoni, G., and I. Fujinaga. 2014. Time-shift normalization and listener profiling in a large dataset of music listening histories. <i>Fourth Annual Seminar on Cognitively Based Music Informatics Research</i> . Toronto, ON.
July, 2014	Poster	<i>International Workshop on Social Media Retrieval and Analysis</i> . Gold Coast, Australia.
November, 2013	Poster	<i>14th International Society for Music Information Retrieval Conference</i> . Curitiba, Brazil.
May, 2012	Presentation	<i>12th International Conference on New Interfaces for Musical Expression</i> . Ann-Arbor, MI.
February, 2012	Presentation	CIRMMT Axis 3 Workshop on Music Score Searching and Analysis. Center for Interdisciplinary Research in Music, Media and Technology, Montréal, QC, Canada.
February, 2012	Poster	<i>Northeastern Music Informatics Special Interest Group, Dartmouth College</i> . Hanover, NH.
October, 2011	Poster	<i>12th International Society for Music Information Retrieval Conference</i> . Miami, FL.
March, 2011	Presentation	CIRMMT Axis 3 Workshop on Optical Music Recognition. Center for Interdisciplinary Research in Music, Media and Technology. Montréal, QC.
October, 2010	Presentation	CIRMMT Axis 3 Workshop on music information retrieval and cultural metadata. Center for Interdisciplinary Research in Music, Media and Technology. Montréal, QC, Canada.
August, 2010	Poster	<i>11th International Society for Music Information Retrieval Conference</i> . Utrecht, Netherlands.
June, 2010	Presentation	<i>2010 International Computer Music Conference</i> . New York, NY.
June, 2010	Presentation	Music information retrieval for composition and performance. <i>2010 International Computer Music Conference</i> workshop. Harvest Works. New York, NY.
May, 2010	Poster and Concert	CIRMMT Student Symposium 2010. Center for Interdisciplinary Research in Music, Media and Technology. Montréal, QC.

Musical Credits (Roles: (C)omposer, (P)erformer, (M)usic Producer, (A)udio Engineer)

2018	VIGLIENSONI – MICHAEL SAVED US ALL (INDEPENDENT) (C / P / M / A)
2017	DEDOS MUERTOS – DEDOS MUERTOS (INDEPENDENT) (P / M)
2016	SILVIO PAREDES – POPTRONICS REMIXES (CLANG) (P / M / A)
2015	VIGLIENSONI - JAGUAR (CLANG) (C / P / M / A) EQUIPO - SIMULACIONES REVISITED (CLANG) (P / M / A)
2014	VIGLIENSONI - LE RÈGNE ANIMAL (INDEPENDENT) (C / P / M / A) FRANCISCO GONZÁLEZ - ALMA PÚRPURA (INDEPENDENT) (P) ENTRÓPICA - NIÑA NUCLEAR (PUNK RECORDS) (P)
2013	LUCYBELL - PODEROSO (INDEPENDENT) (C / P / M)
2010	ANDRÉS BOBE - AB (OVEJA NEGRA) (P)
2008	LULÚ JAM! - SUBAN EL VOLUMEN (FERIA MUSIC) (C / P / M) REDULCE - FIVE MINUTE LOVE (FERIA LA OREJA) (M / A)
2007	LAINUS – HIPOTÁLAMO (FERIA LA OREJA) (A)
2006	MISMOS - CASPANA (LA OREJA) (C / P / M) ROCK HUDSON – QUINTANA ROO (LA OREJA) (M / A)
2005	SECUESTRO – ORIGINAL SOUNDTRACK (C / M) ROCK HUDSON – EL ELELÁ (INDEPENDENT) (M / A)
2004	GABRIEL VIGLIENSONI - NATA (GMBH RECORDS) (C / P / M) ELECTRODOMÉSTICOS – LA NUEVA CANCIÓN CHILENA (LA OREJA) (P) OSCILACIÓN – POESÍA + ELECTRÓNICA (INDEPENDENT) (C / P / M) PURDY ROCKS – ROCK MY ASS (GMBH RECORDS) (M / A) SAIKO – LAS HORAS (LA OREJA) (A)
2003	LULÚ JAM! - CORAZÓN CALIENTE (WARNER MUSIC) (C / P / M) FRANCISCO ALLENDES – VACAS LOCAS (INDEPENDENT) (A) CARLOS SILVA – SOLO, DUO, TRÍO (GMBH RECORDS) (A) DJ BITMAN – SUNSET BEATS (BIG SUR RECORDS) (P) CUERPOS PINTADOS - MÚSICA DEL CUERPO (CUERPOS PINTADOS) (C / P / A) EARTHNIC – EARTHNIC VOL. 1, 2 & 3 (HORIZONTE) (C / P)
2002	MISMOS - PICNIC (SELLO AZUL) (C / P / M) MYRIAM HERNÁNDEZ – EN CONCIERTO (SONY MUSIC) (A) ANGEL PARRA TRÍO – LA HORA FELIZ (SONY MUSIC) (P) BITMAN & ROBAN – ROBAR ES NATURAL (BIG SUR RECORDS) (P)
2001	LUCYBELL – SESIÓN FUTURA (WARNER MUSIC) (A) ZATURNO & TAPIA RABIA – FUSIÓN DE ESTILOS (WARNER MUSIC) (A)
2000	DOLORES DELIRIO – RAÍZ (SONY MUSIC) (M / A) CANAL MAGDALENA - SUMMER LOOSER BOY (WARNER MUSIC) (E) EL TURNO DEL ÁNGEL – ORIGINAL SOUNDTRACK (C)
1999	LA FRECUENCIA REBELDE – LA FRECUENCIA REBELDE (SONY BMG) (A) SUPERNOVA – SUPERNOVA (SONY BMG) (P) AMOROSA – ORIGINAL SOUNDTRACK (C)
1998	LUCYBELL – LUCYBELL (EMI ODEÓN) (C / P / M)
1997	CANAL MAGDALENA – ESPUMA (WARNER MUSIC) (M)
1996	LUCYBELL – MATAZ EP (EMI MUSIC) (C / P / M) LUCYBELL – VIAJAR (EMI MUSIC) (C / P / M)
1995	LUCYBELL – PECES (EMI MUSIC) (C / P / M)

Affiliations

2017–PRESENT	SPECULATIVE LIFE CLUSTER. CONCORDIA UNIVERSITY, CANADA Student member
2013–PRESENT	ASSOCIATION FOR COMPUTING MACHINERY (ACM) Full Member
2011–PRESENT	DISTRIBUTED DIGITAL MUSIC ARCHIVES & LIBRARIES LAB. MCGILL UNIVERSITY, CANADA Postdoctoral fellow
2011–PRESENT	INTERNATIONAL COMPUTER MUSIC ASSOCIATION (ICMA) Student member
2010–PRESENT	INTERNATIONAL SOCIETY FOR MUSIC INFORMATION RETRIEVAL (ISMIR) Member
2010–PRESENT	CENTRE FOR INTERDISCIPLINARY RESEARCH IN MUSIC MEDIA, AND TECHNOLOGY. CANADA Student member
2009–2011	INPUT DEVICES AND MUSIC INTERACTION LAB. MCGILL UNIVERSITY, CANADA Graduate student
1996–PRESENT	SOCIEDAD CHILENA DEL DERECHO DE AUTOR (SCD), CHILE Active member

Reviewing Committees

2018–PRESENT	Program committee member. International Society for Music Information Retrieval
2016–PRESENT	Journal of the Association for Information Science and Technology
2015–PRESENT	International Society for Music Information Retrieval
2007–2008	AcreditaUC. Comisión Nacional de Acreditación. Chile.