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Fabian C. Moss

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- 2017–2019 École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, Digital and Cognitive Musicology Lab (DCML), Doctoral Assistant.
- Jan-Mar 2016 Massachusetts Institute of Technology, (MIT), Cambridge, MA, Department of Linguistics and Philosophy, Visiting Student, supervision: Martin Rohrmeier & David Pesetsky.
 - 2015–2017 **Technische Univserität Dresden (TUD), Dresden, Germany**, *Dresden Music Cognition Lab (DMCL)*, Doctoral Assistant.
- Jan-Apr 2012 Escola Superior de Musica de Catalunya (ESMUC), Barcelona, Spain, ERASMUS Exchange Student, supervision: Thomas Noll.
 - 2011–2013 Hochschule für Musik und Tanz Köln (HfMT), Cologne, Germany, *Musicology*, Master of Arts.
 - 2008–2013 Hochschule für Musik und Tanz Köln (HfMT), Cologne, Germany, *Music Education*, Staatexamen (State Examination).
 - 2006–2016 **Universität zu Köln (UzK), Cologne, Germany**, *Mathematics and Educational Sciences*, Staatexamen (State Examination).
 - 2002–2005 Friedrich-Wilhelm-Gymnasium Köln (FWG), Cologne, Germany, Abitur.

Theses

PhD

Title Transitions of Tonality: A Model-Based Corpus Study (2019)

Supervisors Martin Rohrmeier & Markus Neuwirth, DCML, EPFL

Master

Title "Theorie der Tonfelder" nach Simon und "Neo-Riemannian Theory": Systematik, historische Bezüge und analytische Praxis im Vergleich (2012)

Supervisor Hans Neuhoff, HfMT

Publications

- submitted Harasim, D., **Moss, F. C.**, Ramirez, M., & Rohrmeier, M. Cognitive modeling reveals history of major and minor in Western classical music.
- under review Moss, F. C., de Souza, W. F., & Rohrmeier, M. Harmony and Form in Brazilian Choro: A Corpus-Driven Approach to Musical Style Analysis.
 - 2019 Popescu, T., Neuser, M. P., Neuwirth, M., Bravo, F., Mende, W., Boneh, O., **Moss, F. C.**, & Rohrmeier, M. (2019). The pleasantness of sensory dissonance is mediated by musical style and expertise. *Scientific Reports*, 9(1), 1070. https://doi.org/10.1038/s41598-018-35873-8

Moss, F. C., Neuwirth, M., Harasim, D., & Rohrmeier, M. (2019). Statistical characteristics of tonal harmony: A corpus study of Beethoven's string quartets. *PLOS ONE*, 14(6), e0217242. https://doi.org/10.1371/journal.pone.0217242

- Landnes, K., Mehrabyan, L., Wiklund, V., Lieck, R., **Moss, F. C.**, & Rohrmeier, M. (2019). A Model Comparison for Chord Prediction on the Annotated Beethoven Corpus. In I. Barbancho, L. J. Tardón, A. Peinado, & A. M. Barbancho (Eds.), *Proceedings of the 16th Sound and Music Computing Conference (SMC 2019)* (pp. 250–254). Málaga, Spain.
- 2018 Neuwirth, M., Harasim, D., **Moss, F. C.**, & Rohrmeier, M. (2018). The Annotated Beethoven Corpus (ABC): A Dataset of Harmonic Analyses of All Beethoven String Quartets. *Frontiers in Digital Humanities*, 5(July), 1–5. https://doi.org/10.3389/fdigh.2018.00016
 - **Moss, F. C.**, de Souza, W. F., & Rohrmeier, M.. (2018). Choro Songbook Corpus (Version 1.0) [Data set]. *Zenodo*. https://doi.org/10.5281/zenodo.1442765.
- 2017 Moss, F. C. (2017). [Review of David Huron. Voice Leading: The Science behind a Musical Art]. Music Theory & Analysis, 4(1), 119–130. https://doi.org/10.11116/MTA.4.1.7
- 2014 **Moss, F. C.** (2014). Tonality and functional equivalence: A multi-level model for the cognition of triadic progressions in 19th century music. In *International Conference of Students of Systematic Musicology Proceedings* (pp. 1–8). London, UK.

Talks, Conference Presentations, and Posters

- 2019 Moss, F. C. Transitions of Tonality: Perspectives on the Historical Changes of Tonal Pitch Relations from Computational Musicology, Music Theory, and the Digital Humanities. University of Cologne, November 29, 2019, Cologne, Germany.
 - Moss, F. C. Tracing the History of Tonality with Note Distributions. "Corpus Research as a Means of Unlocking Musical Grammar" International Research Workshop, July 1–4, 2019, Tel-Aviv, Israel.
 - Moss, F. C. Inferring Tonality from Note Distributions Why Models Matter (Poster). SEMPRE Graduate Conference 2019, Cambridge, UK.
 - **Moss, F. C.** *Analyzing Tonality with Note Distributions.* First Swiss Digital Humanities Student Exchange DHX2019, Basel, Switzerland.
- 2018 Moss, F. C., Souza, W. F. & Rohrmeier, M. *Harmony and Form in Brazilian Choro: A Corpus Study.* 15th International Conference on Music Perception and Cognition & 10th triennial conference of the European Society for the Cognitive Sciences of Music, Graz, Austria.
 - Aitken, C., O'Donnell, T. & Rohrmeier, M. [Poster presented by **Moss, F. C.**]. *A Maximum Likelihood Model for the Harmonic Analysis of Symbolic Music*. 15th Sound and Music Computing Conference "Sonic Crossings". Limassol, Cyprus.
 - Moss, F. C. Corpus Research in Digital Musicology (Talk and Tutorial). Seminar "Willkommen in der Matrix: Digitale Anwendungen für die Musikanalyse in Theorie und Praxis", University of Basel, Basel, Switzerland.
 - Harasim, D., **Moss, F. C.** & Ramirez, M. *A Brief History of Tonality* (Poster). Applied Machine Learning Days, EPFL, Switzerland.
- 2017 **Moss, F. C.** Formal Grammars and Ambiguity in Extended Tonality. Workshop and Symposium on Schenkerian Analysis "Wege der Kreativität Zwischen Erfindung und Rekonstruktion", Universität der Künste, Berlin, Germany.
 - Moss, F. C., Souza, W. F. & Rohrmeier, M. Brazilian Choro: A New Data Set of Chord Transcriptions and Analyses of Harmonic and Formal Features. 17. Jahreskongress der Gesellschaft für Musiktheorie (GMTH) & 27. Arbeitstagung der Gesellschaft für Popularmusikforschung (GfPM) "Populäre Musik und ihre Theorien: Begegnungen Perspektivwechsel Transfers", Graz, Austria.
 - Moss, F. C., Harasim, D., Neuwirth, M. & Rohrmeier, M. Beethovens Streichquartette ein XML-basierter Korpus harmonischer Analysen in einem neuen Annotationssystem. Jahrestagung der Gesellschaft für Musikforschung, Kassel, Germany.
 - Moss, F. C., Rohrmeier, M. *Integrating Transformational and Hierarchical Models of Extended Tonality*. 9th European Music Analysis Conference (EuroMAC), Strasbourg, France.
 - Rom, U., Jeßulat, A., **Moss, F. C.** & Guter, I. *Ambiguity, Illusion & Timelessness in Late and Post-Tonal Harmony.* Panel discussion at the 9th European Music Analysis Conference (EuroMAC), Strasbourg, France.

- Moss, F. C. Musik und Sprache. Talk for Student Association "Denkzettel", TUD, Dresden, Germany.
- Moss, F. C., Rohrmeier, M. & Bravo, F. *Emotional Associations Evoked by Structural Properties of Musical Scales and Abstract Visual Shapes*. KOSMOS Dialogue "Music, Emotion, and Visual Imagery", Berlin, Germany.
- Harasim, D., **Moss, F. C.**, Neuwirth, M. & Rohrmeier M. Beethoven's String Quartets: Introducing an XML-Based Corpus of Harmonic Labels Using a New Annotation System. Music Encoding Conference, Tours, France.
- 2016 Moss, F. C. Extended Tonality: Theoretical Challenges and their Relation to the Neuroscientific Study of Musical Syntax. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
 - Moss, F. C., Rohrmeier, M. *Structural Ambiguities in Language and Music* (Poster). Helsinki Summer School for Cognitive Neuroscience 2016 (HSSCN 2016).
 - Moss, F. C., Rohrmeier, M. A grammatical approach to tension-resolution patterns in extended tonal harmony. Meeting of the Computational Cognitive Science Group, Massachusetts Institute of Technology, Department of Brain and Cognitive Sciences, Cambridge, USA.
 - Moss, F. C., Rohrmeier, M. *Towards a syntactic account for harmonic sequences in extended tonality*. Syntax Square Meeting, Massachusetts Institute of Technology, Department of Linguistics and Philosophy, Cambridge, USA.
 - Moss, F. C. Syntax of Extended Tonality: Towards a Grammar of Generalized Harmonic Functions. Music Theory Colloquium, Boston University, College of Fine Arts, School of Music, Boston, USA.
 - **Moss, F. C.** Generalizing Harmonic Functions: A Grammatical Approach to Extended Tonality. Yale University, Department of Music, New Haven, USA.
 - **Moss, F. C.** & Harasim, D. *Extended Tonality and Music Cognition*. Symposium "Towards a World Music Theory", University of Hamburg, Institute for Systematic Musicology, Hamburg, Germany.
 - Moss, F. C. Music Cognition and Extended Tonality: Theoretical Challenges and Empirical Implications. Research Colloquium, University of Cologne, Cologne, Germany.
- 2015 **Moss, F. C.** On generative modelling of musical form. Seminar "Mathematics and Music", TUD, Dresden, Germany.
 - Moss, F. C. 'The terror of sanctity.' Tonal cues for resolving dramatic ambiguities in Wagner's Parsifal. Seminar "Understanding Musical Structures", TUD, Dresden Germany.
- 2014 Moss, F. C. Tonality and functional equivalence: A multi-level model for the cognition of triadic progressions in 19th century music. International conference of Students of Systematic Musicology, Goldsmiths University, London, UK.
 - Moss, F. C. Language, music and the brain: a resource-sharing framework (Patel, 2012). Seminar "Cognitive Neuroscience of Music", Institut for Musicology, University of Cologne, Cologne, Germany.

Awards and Scholarships

- 2016–2107 Konrad Adenauer Foundation, PhD Scholarship.
 - Aug 2016 TUD Graduate Academy, Travel Award.
- Jan–Mar 2016 **Deutscher Akademischer Austauschdienst (DAAD)**, great!_{ipid4all} (group2group exchange for academic talents).
 - Sep 2014 Society for Education and Music Psychology (SEMPRE), Travel Award.
- Jan-Apr 2012 European Union (EU), ERASMUS Scholarship.
 - 2008–2013 Konrad Adenauer Foundation, Student Scholarship.

Teaching and Supervision

- 2019 Supervision of an MSc student project for "Machine Learning" course, EPFL.
- 2018 Teaching Assistant, "Digital Musicology" (MSc; tutorials and excercises), EPFL.

- Supervision of three MSc student projects for "Machine Learning" course, EPFL.
- Supervision of four MSc student projects for "Digital Musicology" course, EPFL.
- 2017 Peer-mentoring visiting PhD student in music theory/composition, TUD.
- 2016–2017 "Reading Class Musicology", (BA; with Christoph Wald), TUD.
- 2015–2016 "Introduction to Musicology", (BA; with Christoph Wald), TUD.
 - 2015 Joint supervision of interdisciplinary project of technical design undergraduate, TUD.
 - 2013 "Academic Writing and Research Techniques" (MA), HfMT.

Administration

Organization

- 2019 Workshop "Schenkerian and Tonfeld Theory for Music Analysis", DCML, EPFL.
- 2015 Co-organization of lecture series "Systematic Musicology: Perception and Cognition of Music", DMCL, TUD.
- $2013 \quad \hbox{Co-organization of the international conference "Musical Meter in Comparative Perspective", HfMT.}$

Reviewer Activity

- since 2019 Music and Science.
- since 2016 International Conference of Students of Systematic Musicology (SysMus).

Memberships

- since 2019 UNIL-EPFL Centre for Digital Humanities (dhCenter).
 - EPFL Data Champions Community.
 - Gesellschaft für Musikforschung (GfM).
- since 2018 Co-founder and vice-president of the Digital Humanities Student Association dhelta at EPFL.
- since 2017 Gesellschaft für Musiktheorie (GMTH).

Relevant Courses

Workshops and Summer Schools

- 2019 Workshop "Research Data Management: introduction", EPFL Library, October 10, 2019.
- 2018 Workshop "Voice-leading schemata in theory, corpus research, and practical composition (Compose your own Chopin!)", EPFL, September 18–20, 2018
 - Symposium "Archiving Intangible Cultural Heritage & Performing Arts: A Symposium and Summer School for Living Traditions", EPFL, August 6–7, 2018
- 2017 Workshop "Meaning in Music: Bridging Musicological, Linguistic, and Neuroscientific Perspectives", EPFL, December 4–6, 2017.
 - Summer School "Exploring Edges: An International Colloquium between the Digital Humanities, Architecture, Artistic Research, and Critical Technical Practice", EPFL, July 11–14, 2017.
- 2016 Summer School "Cognitive Neuroscience of Music", University of Helsinki, August 11–17, 2016 University Courses
- 2017 "Applied Data Analysis" (Robert West), EPFL.
- 2016 "Introduction to Schenkerian Theory" (Oliver Schwab-Felisch), TUD; "Cognitive Science" (P. Sinha, J. Tenenbaum, E. Gibson), MIT; "Computational Modeling of Phonology and Morphology" (T. O'Donnell, A. Albright), MIT.
- 2015 "Generative Modeling" (T. O'Donnell), TUD; "Introduction to Quantitative Methods for the Social Sciences" (Bernhard Schipp), TUD.
- 2012-13 "Cognitive Neuroscience of Music", "Cognitive Musicology: Theoretical Foundations", "Cognitive Modeling" (Uwe Seifert), UzK.

Skills

Languages Python, Latex, HTML/CSS; German (native), English (fluent), French, Spanish (basic). Utilities Git, Anaconda, Jupyter Notebook/Lab.

Extra-Curricular Activities

Voice

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2014-2017	Classical a-capella octet Vokalexkursion.
2013-2015	Cologne Cathedral Chamber Choir.
2012-2014	Conductor of several children's choirs at Musikschule Leverkusen.
2011–2013	Cologne Conservatory Chamber Choir.
2008-2013	Pop a-capella group gezwungenermaßen.

Instruments

since 1993 Piano since 1994 Guitar