

# Fabian C. Moss | Curriculum Vitae

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## Employment

<b>University of Amsterdam (UvA)</b> <i>Cultural Analytics, Data Science Center, Amsterdam, The Netherlands</i>	<b>Research Fellow</b> <i>from 2022</i>
<b>École Polytechnique Fédérale de Lausanne (EPFL)</b> <i>Digital and Cognitive Musicology Lab (DCML), Lausanne, Switzerland</i>	<b>Postdoctoral Researcher</b> <i>2020–2021</i>
<b>École Polytechnique Fédérale de Lausanne (EPFL)</b> <i>Digital and Cognitive Musicology Lab (DCML), Lausanne, Switzerland</i>	<b>Doctoral Assistant</b> <i>2017–2019</i>
<b>Technische Universität Dresden (TUD)</b> <i>Dresden Music Cognition Lab (DMCL), Dresden, Germany</i>	<b>Doctoral Assistant</b> <i>2015–2017</i>
<b>Musikschule Leverkusen</b> <i>Project “Jedem Kind seine Stimme” (JEKISS), Leverkusen, Germany</i>	<b>Conductor and vocal coach</b> <i>2012–2014</i>
<b>Hochschule für Musik und Tanz Köln</b> <i>Webmaster for several departmental websites</i>	<b>Student Assistant</b> <i>2013–2014</i>
<b>Hochschule für Musik und Tanz Köln</b> <i>Project on rhythm and timing in Malian percussion music (PI: Dr. Rainer Polak)</i>	<b>Student Assistant</b> <i>2011–2013</i>
<b>Hochschule für Musik und Tanz Köln</b> <i>Conception and Organization of the “Liszt-Night” with Prof. Jacob Leuschner &amp; Prof. Richard Braun</i>	<b>Student Assistant</b> <i>April 2011</i>
<b>Universität zu Köln</b> <i>Webmaster for Humanwissenschaftliche Fakultät, Netzwerk Medien</i>	<b>Student Assistant</b> <i>2007–2010</i>

## Education

<b>École Polytechnique Fédérale de Lausanne (EPFL)</b> <i>Digital and Cognitive Musicology Lab (DCML), Lausanne, Switzerland</i>	<b>PhD student</b> <i>2017–2019</i>
<b>Massachusetts Institute of Technology (MIT)</b> <i>Department of Linguistics and Philosophy, Cambridge, MA, USA</i>	<b>Visiting Student</b> <i>Jan–Mar 2016</i>
<b>Technische Universität Dresden (TUD)</b> <i>Dresden Music Cognition Lab (DMCL), Dresden, Germany</i>	<b>PhD student</b> <i>2015–2017</i>
<b>Escola Superior de Musica de Catalunya (ESMUC)</b> <i>Barcelona, Spain</i>	<b>ERASMUS Exchange Student</b> <i>Jan–Apr 2012</i>
<b>Hochschule für Musik und Tanz Köln (HfMT)</b> <i>Musicology, Cologne, Germany</i>	<b>Master of Arts</b> <i>2011–2013</i>
<b>Hochschule für Musik und Tanz Köln (HfMT)</b> <i>Music Education (Piano Major), Cologne, Germany</i>	<b>Staatexamen [State Examination]</b> <i>2008–2013</i>
<b>Universität zu Köln (UzK)</b> <i>Mathematics and Educational Sciences, Cologne, Germany</i>	<b>Staatexamen [State Examination]</b> <i>2006–2016</i>
<b>Friedrich-Wilhelm-Gymnasium Köln (FWG)</b> <i>Cologne, Germany</i>	<b>Abitur [German High School Diploma]</b> <i>2005</i>

## Publications

### Theses

- Moss, F. C. (2019). *Transitions of tonality: A model-based corpus study* (Doctoral dissertation). École Polytechnique Fédérale de Lausanne. Lausanne, Switzerland. <https://doi.org/10.5075/epfl-thesis-9808>
- Moss, F. C. (2012, November 2). “Theorie der Tonfelder” nach Simon und “Neo-Riemannian Theory”: Systematik, his-

torische Bezüge und analytische Praxis im Vergleich (Master’s thesis). Hochschule für Musik und Tanz Köln. <https://doi.org/10.5281/zenodo.4748512>

### Preprints

- Bracks, C., & Moss, F. C. (2022). Totoli’s Art of Lelegesan: Analyzing Sociocultural Context and Musical Content. <https://doi.org/10.31219/osf.io/5tsxa>

Herff, S. A., Moss, F. C., & Rohrmeier, M. (2021, October 15). Evidence for cognitive tonal hierarchies in cadential but not scalar contexts. Retrieved March 27, 2022, from <https://osf.io/yz957/>

## Journal articles.....

- Moss, F. C., Neuwirth, M., & Rohrmeier, M. (2022). The line of fifths and the co-evolution of tonal pitch-classes. *Journal of Mathematics and Music*, 0(0), 1–25. <https://doi.org/10.1080/17459737.2022.2044927>
- Viaccoz, C., Harasim, D., Moss, F. C., & Rohrmeier, M. (2022). Wavespaces: A visual hierarchical analysis of tonality using the discrete Fourier transform. *Musicae Scientiae*, 10298649211034906. <https://doi.org/10.1177/10298649211034906>
- Harasim, D., Moss, F. C., Ramirez, M., & Rohrmeier, M. (2021). Exploring the foundations of tonality: Statistical cognitive modeling of modes in the history of Western classical music. *Humanities and Social Sciences Communications*, 8(1), 1–11. <https://doi.org/10.1057/s41599-020-00678-6>
- Moss, F. C., & Neuwirth, M. (2021). FAIR, Open, Linked: Introducing the Special Issue on Open Science in Musicology. *Empirical Musicology Review*, 16(1), 1–4. <https://doi.org/10.18061/emr.v16i1.8246>
- Moss, F. C., & Rohrmeier, M. (2021). Discovering Tonal Profiles with Latent Dirichlet Allocation. *Music & Science*, 4, 20592043211048827. <https://doi.org/10.1177/20592043211048827>
- Lieck, R., Moss, F. C., & Rohrmeier, M. (2020). The Tonal Diffusion Model. *Transactions of the International Society for Music Information Retrieval*, 3(1), 153–164. <https://doi.org/10.5334/tismir.46>
- Moss, F. C., Souza, W. F., & Rohrmeier, M. (2020). Harmony and form in Brazilian Choro: A corpus-driven approach to musical style analysis. *Journal of New Music Research*, 49(5), 416–437. <https://doi.org/10.1080/09298215.2020.1797109>
- 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>
- 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>
- 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, 1–5. <https://doi.org/10.3389/fdigh.2018.00016>
- 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/10.1111/MTA.4.1.71>

## Conference papers & book chapters.....

- Moss, F. C. (in prep.). Transatlantic transformations: How Riemannian is Neo-Riemannian theory? In S. Keym & C. Hust (Eds.), *Hugo Riemann: Musikforschung zwischen Universalität, Nationalismus und internationaler Ausstrahlung*.
- Harasim, D., Affatato, G., & Moss, F. C. (2022). midi-VERTO: A Web Application to Visualize Tonality in Real Time. In M. Montiel, O. A. Agustín-Aquino, F. Gómez, J. Kastine, E. Lluís-Puebla, & B. Milam (Eds.), *Mathematics and Computation in Music* (pp. 363–368). Springer International Publishing. [https://doi.org/10.1007/978-3-031-07015-0\\_31](https://doi.org/10.1007/978-3-031-07015-0_31)
- Hentschel, J., Moss, F. C., McLeod, A., Neuwirth, M., & Rohrmeier, M. (2022). Towards a unified model of chords in Western harmony. In S. Münnich & D. Rizo (Eds.), *Music Encoding Conference Proceedings 2021* (pp. 143–149). Humanities Commons. <https://doi.org/10.17613/4crx-fr36>
- Anzuoni, E., Ayhan, S., Dutto, F., McLeod, A., Moss, F. C., & Rohrmeier, M. (2021, June 24–26). A Historical Analysis of Harmonic Progressions Using Chord Embeddings. In D. A. Mauro, S. Spagnol, & A. Valle (Eds.), *Proceedings of the 18th Sound and Music Computing Conference* (pp. 284–291). <https://doi.org/10.5281/zenodo.5038910>
- Hentschel, J., Moss, F. C., Neuwirth, M., & Rohrmeier, M. (2021). A semi-automated workflow paradigm for the distributed creation and curation of expert annotations. In J. H. Lee, A. Lerch, Z. Duan, J. Nam, P. Rao, P. van Kranenburg, & A. Srinivasamurthy (Eds.), *Proceedings of the 22nd International Society for Music Information Retrieval Conference, ISMIR 2021, Online, November 7-12, 2021* (pp. 262–269). Retrieved December 8, 2021, from <https://archives.ismir.net/ismir2021/paper/000032.pdf>
- Moss, F. C., Köster, M., Femminis, M., Métraiier, C., & Bavaud, F. (2021). Digitizing a 19th-Century Music Theory Debate for Computational Analysis. In M. Ehrmann, F. Karsdorp, M. Wevers, T. L. Andrews, M. Burghardt, M. Kestemont, E. Manjavacas, M. Piotrowski, & J. van Zundert (Eds.), *CHR 2021: Computational Humanities Research Conference, November 17-19, 2021, Amsterdam, The Netherlands* (pp. 159–170). [http://ceur-ws.org/Vol-2989/short\\_paper31.pdf](http://ceur-ws.org/Vol-2989/short_paper31.pdf)
- Rohrmeier, M., & Moss, F. C. (2021). A Formal Model of Extended Tonal Harmony. In J. H. Lee, A. Lerch, Z. Duan, J. Nam, P. Rao, P. van Kranenburg, & A. Srinivasamurthy (Eds.), *Proceedings of the 22nd International Society for Music Information Retrieval Conference, ISMIR 2021, Online, November 7-12, 2021* (pp. 569–578). Retrieved December 8, 2021, from <https://archives.ismir.net/ismir2021/paper/000071.pdf>
- 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 & Music Computing Conference (SMC 2019)* (pp. 250–254).
- Moss, F. C. (2014). Tonality and functional equivalence: A multi-level model for the cognition of triadic pro-

gressions in 19th century music. In K. Jakubowski, N. Farrugia, & D. Müllensiefen (Eds.), *International Conference of Students of Systematic Musicology Proceedings* (pp. 1–8). <http://ojs.gold.ac.uk/index.php/sysmus14/article/view/243>

## Data sets and code

Moss, F. C. (2020a, June 6). *Choro Songbook Corpus*. Zenodo. <https://doi.org/10.5281/zenodo.3881347>

Moss, F. C., Neuwirth, M., & Rohrmeier, M. (2020). *Tonal Pitch-Class Counts Corpus (TP3C) (Version v1.0.0)*. Zenodo. <https://doi.org/10.5281/zenodo.3600088>

Moss, F. C., Loayza, T., & Rohrmeier, M. (2019, July 1). *Pitchplots*. <https://doi.org/10.5281/ZENODO.3265393>

## Blog posts

Moss, F. C. (2020b, October 5). *A computational model for note distributions in musical pieces*. Digital and Cognitive Musicology Lab News Blog. <https://www.epfl.ch/labs/dcml/computational-model-note-dists/>

Moss, F. C. (2020c, September 28). *Tracing historical changes in the exploration of tonal space*. Digital and Cognitive Musicology Lab News Blog. <https://www.epfl.ch/labs/dcml/tracing-historical-changes/>

## Talks, Conference Presentations, and Workshops (<sup>i</sup> = invited)

### Workshops and Public Talks

2022: <sup>i</sup>Moss, F. C. *midivERTO: A web-based tool to make computational music analysis more accessible*. Institute für Musik und Musikwissenschaft, Technische Universität Dortmund, Germany, 28 April.

<sup>i</sup>Moss, F. C. *Interactive Music Analysis using the DFT and Pitch-Class Distributions extracted from MIDI files*. Faculdade de Engenharia da Universidade do Porto (FEUP), Porto, Portugal, 4 April 2022.

<sup>i</sup>Moss, F. C. *Music Theory and the Discrete Fourier Transform*. Cognitive and Systematic Musicology Lab Meeting, The Ohio State University, Columbus, USA [online], 25 March 2022.

2021: <sup>i</sup>Moss, F. C. *The Science of Music*. EPFL Information Days, 24–25 November 2021, Lausanne, Switzerland. <https://youtu.be/y5TQN09zDVI>

<sup>i</sup>Rohrmeier, M. & Moss, F. C. *Music, Mathematics, and the Geometry of Jazz*. Montreux Jazz Festival, July 11, 2021, Montreux, Switzerland.

Moss, F. C. *Boosting Open Research in Empirical Musicology*. EPFL Data Champions Meeting (DCBreak#3). March 18, 2021, Lausanne, Switzerland [online].

2020: Moss, F. C. *Data-Driven Music History*. International Conference of Students of Systematic Musicology, York University, September 14, 2020, York, UK [online].

2018: <sup>i</sup>Moss, F. C. *Corpus Research in Digital Musicology*. Seminar “Willkommen in der Matrix: Digitale Anwendungen für die Musikanalyse in Theorie und Praxis”, University of Basel, Basel, Switzerland.

2017: <sup>i</sup>Moss, F. C. *Musik und Sprache*. Talk for Student Association “Denkzettel”, TUD, Dresden, Germany.

### Conference presentations

2022: Köster, M. & Moss, F. C. *Der harmonische Dualismus und seine Entwicklung zum ‘Streit- und Angelpunkt der Musiktheorie’ – eine Diskursanalyse*. Jahrestagung der Gesellschaft für Musikforschung. Nach der Norm: Musikwissenschaft im 21. Jahrhundert, 29 September – 1 October 2022, Humboldt-Universität Berlin, Berlin, Germany.

Moss, F. C. & Métrailler, C. [Cancelled.] *Reading Music Theory from a Distance: A Corpus Study of the Thesaurus Musicarum Italicarum*. 21st Quinquennial Congress

of the International Musicological Society (IMS2022), 22–26 August 2022, Athens, Greece.

Harasim, D., Affatato, G., & Moss, F. C.. *midivERTO: A Web Application to Visualize Tonality in Real Time*. 8th International Conference on Mathematics and Computation in Music (MCM2022). Georgia State University, Atlanta, USA, 21–24 June 2022.

Bracks, C. & Moss, F. C. *Totoli’s Art of Lelegesan: Analyzing Sociocultural Context and Musical Content*. 10th International Workshop on Folk Music Analysis 2022 (FMA2022), University of Sheffield, Sheffield, UK, June 14–17, 2022.

Meng, S., Moss, F. C., & Rohrmeier, M. *Revisiting Tong Yun San Gong theory in Chinese music: a corpus study of Chinese folksongs*. 7th Analytical Approaches to World Music Conference (AAWM2022), University of Sheffield, Sheffield, UK, June 14–17, 2022.

2021: Moss, F. C., Köster, M., Femminis, M., Métrailler, C., & Bavaud, F. *Digitizing a 19th-century music theory debate for computational analysis*. CHR 2021: Computational Humanities Research Conference, November 17–19, 2021, Amsterdam, The Netherlands [online].

Moss, F. C. *Polytonality and the Emergence of Tone Fields in Tailleferre’s Pastorale*. 21. Jahreskongress der Gesellschaft für Musiktheorie (GMTH) – Tonsysteme und Stimmungen. October 1–3, 2021, Musik-Akademie Basel/Hochschule für Musik (FHNW), Basel, Switzerland.

Hentschel, J., Moss, F. C., Markus Neuwirth, & Rohrmeier, M. *Die Entwicklung der tonalen Sprache in Beethovens Streichquartetten: Eine vergleichende Korpusstudie der Schaffensphasen*. XVII. Internationaler Kongress der Gesellschaft für Musikforschung, Universität Bonn, Abteilung für Musikwissenschaft/Sound Studies und Beethoven-Archiv des Beethoven-Hauses Bonn Bonn, Germany, September 28 – October 1 2021, Bonn, Germany.

Moss, F. C. *Digitizing the Dualism Debate: a case study in the computational analysis of historical music theory sources*. CROSS 2021 Event. 16 September 2021, École Polytechnique Fédérale de Lausanne/Université de Lausanne, Lausanne, Switzerland.

Moss, F. C., Herff, S. A., & Rohrmeier, M. *Modeling per-*

- ceived tonal stability of individual and aggregated listener responses for scales and cadences. 16th International Conference on Music Perception and Cognition & 11th triennial conference of the European Society for the Cognitive Sciences of Music. July 28–31, Sheffield, UK [online].
- Moss, F. C., Herff, S. A., & Rohrmeier, M.** *Individual perception of diatonic scales predicts perceived tonal fit in octatonic and hexatonic contexts*. 16th International Conference on Music Perception and Cognition & 11th triennial conference of the European Society for the Cognitive Sciences of Music. July 28–31, Sheffield, UK [online].
- Hentschel, J., **Moss, F. C.**, McLeod, A., & Rohrmeier, M. *Towards a Unified Model of Chords in Western Harmony*. Music Encoding Conference [online].
- Anzuoni, E., Ayhan, S., Dutto, F., McLeod, A., **Moss, F. C.**, & Rohrmeier, M. *A Historical Analysis of Harmonic Progressions Using Chord Embeddings*. 18th Sound and Music Computing Conference [online].
- Moss, F. C.** *Discovering the line of fifths in a large historical corpus*. Future Directions of Music Cognition, The Ohio State University, March 6–7, 2021, Columbus, OH [online]. <https://doi.org/10.17605/OSF.IO/J5W6T>
- 2020: <sup>i</sup>**Moss, F. C.** *The Importance of Modeling in Computational Musicology*. Round-table on “Probability and Music”, 5th International Congress of Music and Mathematics (MusMat 2020) – Perspectives and Applications of Mathematics in Post-Tonal Theories (ñHomage to Jamary Oliveira), December 8–12, Rio de Janeiro, Brazil [online].
- Moss, F. C.** *Analyzing musical pieces on the Tonnetz using the pitchplots Python library*. 20. Jahreskongress der Gesellschaft für Musiktheorie (GMTH), Hochschule für Musik Detmold, October 1–4, 2020, Detmold, Germany [online].
- <sup>i</sup>**Moss, F. C.** *Computational Musicology and the Digital Humanities: Problems, Practices, and Prospects*. CRETA-Werkstatt #9, Center for Reflected Text Analytics, University of Stuttgart, February 18, 2020, Stuttgart, Germany.
- 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.
- <sup>i</sup>**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)*. SEMPRES 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.
- <sup>i</sup>**Moss, F. C.** *Corpus Research in Digital Musicology*. 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: <sup>i</sup>**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.
- <sup>i</sup>**Moss, F. C.** *From Beethoven to Brazil: Digital Musicology at EPFL*. Digital Synergies: Ca' Foscari meets École Polytechnique Fédérale de Lausanne. Global Challenges Seminar - Team “Creative arts, cultural heritage and digital humanities”, Venice, Italy.
- 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 Populärmusikforschung (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.**, 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: <sup>i</sup>**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.
- <sup>i</sup>**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.
- <sup>i</sup>**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.

## Teaching

- Spring 2021:** "Musical Diversity across Historical Time", lecture in class "Digital Musicology", EPFL.
- Fall 2020:** "Introduction to Musical Corpus Studies", UzK.
- "Tonality: Perspectives of historical musicology and corpus studies", lecture in "Ringvorlesung Musikwissenschaft", UzK.
- Spring 2020:** "Musical improvisation, invention and creativity", teaching assistant, EPFL.
- "Musical Diversity across Historical Time", lecture in class "Digital Musicology", EPFL.
- Spring 2018:** "Digital Musicology", teaching assistant, EPFL.
- 2016–2017:** "Reading Class Musicology", with Christoph Wald, TUD.
- 2015–2016:** "Introduction to Musicology", with Christoph Wald, TUD.
- Spring 2013:** "Academic Writing and Research Techniques", HfMT.

## Supervision

- Fall 2020:** Supervision of 3 Machine Learning graduate student projects on vector embeddings of harmony.
- Spring 2020:** Co-supervision of Digital Humanities MSc thesis.
- Fall 2019:** Supervision of Machine Learning graduate student project on vector embeddings of harmony.
- Fall 2018:** Supervision of 3 Machine Learning graduate student projects on chord prediction with neural networks.
- Spring 2018:** Supervision of 4 Digital Musicology graduate student projects.
- Spring 2017:** Peer-mentoring visiting PhD student in music theory/composition.
- Fall 2015:** Joint supervision of interdisciplinary project of technical design undergraduate.

## Funding

### Grants

- |   |                    |
|---|--------------------|
| <b>Durham University Seedcorn Grant</b>   | <b>GBP 7,475</b>   |
| <i>Funding for proof-of-concept study to support larger grant application</i>   | 2022–23            |
| Tuomas Eerola, Fabian C. Moss   |                    |
| <b>University of Amsterdam Data Science Centre Accelerate Program (Matching Funding)</b>                              | <b>EUR 192,000</b> |
| <i>Data Scientists/Engineers Cultural Data Access &amp; Visualization, Spatial Humanities, Cultural Data Analysis</i> | 2022–24            |
| Tobias Blanke, Fabian C. Moss, Julia Noordegraaf, & Thomas Poell  |                    |
| <b>dhCenter UNIL-EPFL project fund</b>  | <b>CHF 2'880</b>   |
| <i>Enabling interactive music visualization for a wider community</i>   | 2021               |
| Fabian C. Moss & Daniel Harasim   |                    |

## Awards and scholarships

**2016–2017:** 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.

## Administration

### Organization

**2022:** Workshop “Representing Harmony: Goals and Challenges”, with Johannes Hentschel, Markus Neuwirth & Martin Rohrmeier. 13–16 September 2022, Digital and Cognitive Musicology Lab, École Polytechnique Fédérale de Lausanne, Switzerland.

**2021:** Workshop “Musik – Schrift – Digitalität” [Music – Writing – Digitality], with Dennis Ried and Daniel Fütterer. 13–14 December 2021, Hochschule für Musik, Karlsruhe, Germany.

**2019:** Workshop “Schenkerian and Tonfeld Theory for Music Analysis”. 12–15 December 2019, Digital and Cognitive Musicology Lab, École Polytechnique Fédérale de Lausanne, Switzerland.

First Swiss Digital Humanities Exchange, with Jessica Pidoux, Gerhad Lauer and Stefan Münnich. 8–9 February 2019, DH Lab, University of Basel, Switzerland.

**2015:** Co-organization of lecture series “Systematic Musicology: Perception and Cognition of Music”, lead: Martin Rohrmeier. Dresden Music Cognition Lab, Technical University Dresden, Germany.

**2013:** Co-organization of the international conference “Musical Metre in Comparative Perspective”, lead: Hans Neuhoof and Rainer Polak. 4–6 April 2013, Hochschule für Musik und Tanz Köln, Germany.

### Reviewer activity

**Journals:** *Empirical Musicology Review*, *Music and Science*, *Music Theory and Analysis*, *Transactions of the International Society of Music Information Retrieval*, *Zeitschrift der Gesellschaft für Musiktheorie*

**Conferences:** *Computational Humanities Research (CHR)*, *Conference of the European Society for the Cognitive Sciences of Music (ESCOM)*, *International Conference on Music Perception and Cognition (ICMPC)*, *International Conference of Students of Systematic Musicology (SysMus)*

### Responsibilities and memberships

**2022:** Scientific Committee Member for Workshop on Computational Methods in the Humanities 2022 (COMHUM 2022), 9–10 June, 2022, Lausanne, Switzerland.

**2021:** Programm Committee Member for 2nd Conference on Computational Humanities Research (CHR2021), 17–19 November, 2021, Amsterdam, The Netherlands [online].

**since 2021:** European Society for the Cognitive Sciences of Music (ESCOM), International Society for Music Information Retrieval (ISMIR)

**since 2020:** Co-Chair of the Music Analysis Interest Group of the *Music Encoding Initiative* (MEI).

**since 2019:** UNIL-EPFL Centre for Digital Humanities (dhCenter); EPFL Data Champions Community; Gesellschaft für Musikforschung (GfM).

**2018–2019:** Co-founder and vice-president of the Digital Humanities Student Association *dhelta* at EPFL.

**since 2017:** Gesellschaft für Musiktheorie (GMTH).

**2012–2013:** Financial officer for General Students' Committee [Finanzreferent AStA], HfMT.

## Media coverage

**Jan 2021:** “Machine learning helps retrace evolution of classical music”

<https://actu.epfl.ch/news/machine-learning-helps-retrace-evolution-of-clas-2/>

**Aug 2020:** “Bringing computational music analysis beyond the traditional canon”

<https://actu.epfl.ch/news/bringing-computational-music-analysis-beyond-the-t/>

**Jun 2019:** “A Data Science Analysis Finds Beethoven's Style In His String Quartets”

<https://www.forbes.com/sites/evaamsen/2019/06/06/a-data-science-analysis-finds-beethovens-style-in-his-string-quartets/>

“Decoding Beethoven’s music style using data science”

<https://actu.epfl.ch/news/decoding-beethoven-s-music-style-using-data-scienc/>

**Mar 2019:** “Creating connections in a growing digital humanities community”

<https://actu.epfl.ch/news/creating-connections-in-a-growing-digital-humani-2/>

## Workshops and summer/winter schools attended

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**2020:** Workshop “Transcribing – Encoding – Annotating: New Approaches of Technology and Methodology for Historical Sources in Crowd Sourcing and Citizen Science”. Forschungsbibliothek Gotha der Universität Erfurt, November 26–27 [online].

Workshop “Musikalische Schrift und Digitalität”, Basel, Switzerland, September 22–23.

*ediorom* summer school (text and music encoding). University of Paderborn. Paderborn, Germany, August 31–September 4 [online].

**2019:** Workshop “Research Data Management: introduction”, EPFL Library, October 10.

**2018:** Workshop “Voice-leading schemata in theory, corpus research, and practical composition (Compose your own Chopin!)”, EPFL, September 18–20.

Symposium “Archiving Intangible Cultural Heritage & Performing Arts: A Symposium and Summer School for Living Traditions”, EPFL, August 6–7.

**2017:** Workshop “Meaning in Music: Bridging Musicological, Linguistic, and Neuroscientific Perspectives”, EPFL, December 4–6.

Summer School “Exploring Edges: An International Colloquium between the Digital Humanities, Architecture, Artistic Research, and Critical Technical Practice”, EPFL, July 11–14.

**2016:** Summer School “Cognitive Neuroscience of Music”, University of Helsinki, August 11–17.

## Skills

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**Languages:** Python, Latex, HTML/CSS  
German (native), English (fluent), French (conversational), Spanish (basic)

**Utilities:** Git, GitHub, Jupyter Notebook/Lab

## Musical activities

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**2014–2017:** Classical vocal octet *Vokalexkursion*

**2013–2015:** Cologne Cathedral Chamber Choir

**2011–2013:** Cologne Conservatory Chamber Choir

**2008–2013:** Pop a-capella group *gezwungenermaßen*

**since 1994:** Guitar

**since 1993:** Piano