

# CORPUS RESEARCH

## as a Means of Unlocking

# MUSICAL GRAMMAR

## International Research Workshop | July 1-4 2019

Department of Music, Bar-Ilan University  
The Buchmann-Mehta School of Music, Tel Aviv University

**July 1-2 | Bar-Ilan University**  
**Music Building (1005) | Room 109**

**Monday | July 1st:**

**9:00-10:00 | Registration**

**10:00-10:30 | Inauguration and  
welcome addresses Bar-Ilan University**

### SESSION I

**Musical Corpus Research Today:  
Projects, Problems, Challenges**

Chair: Eytan Agmon,  
Bar-Ilan University

**10:30-11:45 | Corpora and  
Model-driven Music Research**  
Martin Rohrmeier, École Polytechnique  
Fédéral de Lausanne

**12:00-13:15 | What Can We Expect from  
Corpus Studies?**

Dmitri Tymoczko, Princeton University

### SESSION II

**Data-Driven Research as a Means of  
Analytic Revision**

Chair: Uri Rom, Tel Aviv University

**14:30-15:45 | Measuring the  
Immeasurable in Music**  
Dan Shanahan, Ohio State University

**16:00-17:15 | Towards a Bottom-Up  
Data-Driven Theory of Musical**  
Yoel Greenberg, Bar-Ilan University

**Tuesday | July 2nd:**

### SESSION III

**Algorithmic Methods**

Chair: Alon Schab, University of Haifa

**9:30-10:00 | A Graph Representation of Hierarchical  
Voice-Leading**  
Christoph Finkensiep, École Polytechnique  
Fédéral de Lausanne

**10:00-10:30 | Computational analysis of fugues and sonata  
forms combining patterns, harmony and  
rhythmic elements**  
Mathieu Giraud, Université Lille

**10:30-11:00 | A Data-Driven History of Major and Minor**  
Daniel Harasim, École Polytechnique Fédéral de Lausanne

**11:15-11:45 | Tracing the History of Tonality with  
Note Distributions**  
Fabian Moss, École Polytechnique Fédéral de Lausanne

**11:45-12:05 | Sliding-Window Pitch-Class Histograms as a  
Modeling Tool of Musical Form**  
Dror Chawin, Tel Aviv University

### SESSION IV

**Short Presentations (1) | Computational Methods**

Chair: Markus Neuwirth, École Polytechnique  
Fédéral de Lausanne

**13:15-14:45 | Speakers: Matan Ben-Asher (Bar-Ilan  
University), Assaf Brown (Hebrew University of  
Jerusalem), Sarig Sela (Hebrew University of Jerusalem),  
Aviel Sulem (Bar-Ilan University), Adam Yodfat (Hebrew  
University of Jerusalem).**

### SESSION V

**Forging Bonds (1) | Music - Language -  
Grammar - Perception**

Chair: Daniel Shanahan, Ohio State University

**15:00-15:45 | Deep-Learning Methods for Modeling  
Human Language**  
Yoav Goldberg, Bar-Ilan University

**15:45-16:30 | Cross-Modal Associations of Tonal Stability**  
Zohar Eitan, Neta Maimon, Tel Aviv University

**Concert (1)**

**17:00-18:00 | Carmel Quartet: Paul Ben-Haim, Mozart**

**Social Dinner (registration required)**

**19:00 | Conference Dinner (location to be announced)**

**July 3-4 | Tel Aviv University**

**The Buchmann-Mehta School of Music | Targ Hall**

**Wednesday | July 3rd:**

**9:30-10:00 | Welcome addresses  
Tel Aviv University**

### SESSION VI

**Cadences and Musical Punctuations  
as Corpora (1)**

Chair: Zohar Eitan, Tel Aviv University

**10:00-11:15 | Statistical Explorations of  
Harmony and Cadences in the Annotated  
Mozart Dataset**  
Markus Neuwirth, École Polytechnique  
Fédéral de Lausanne

**11:30-12:45 | Cadence and Formal Function**  
Nathan Martin, University of Michigan

### SESSION VII

**Cadences and Musical Punctuations  
as Corpora (2)**

Chair: Yoel Greenberg, Bar-Ilan University

**14:00-15:15 | Bayesian Learning of Tonal  
Cadences from Harmonic and Melodic Cues**  
Ben Duane, Washington University, Saint Louis

**15:30-16:45 | Musical Punctuation and  
Temporality in a Corpus of Mozart's  
Sonata Expositions**  
Uri Rom, Tel Aviv University

### SESSION VIII

**Short Presentations (2)**

**Diverse Musical Corpora**

Chair: Dmitri Tymoczko, Princeton University

**16:45-18:00 | Speakers: Miri Blustein (Tel Aviv  
University), Mathieu Giraud (Université Lille),  
Ziv Kaplan (Tel Aviv University), Ana Llorens  
(Instituto Complutense de Madrid).**

**Concert (2)**

**18:15-19:00 | TAU Voice Students:  
Israeli Art Songs**

**Thursday | July 4th:**

### SESSION IX

**Forging Bonds (2) | Corpus Studies and  
Formenlehre**

Chair: Yonatan Bar-Yoshafat,  
The Open University

**9:30-10:45 | Syntax and Form in Haydn's  
Symphonic Last Movements**  
Jan Miyake, Oberlin College, Ohio

**11:00-11:30 | The Formal Evolution of the Concerto  
First Movement in the Eighteenth Century: a  
Corpus-Based Approach**  
Omer Maliniak, Bar-Ilan University

**11:30-12:15 | Schubert's Short Dances for Piano  
Solo: Intra-Corpus Norms and Recurring  
Artistic Devices**  
Yosef Goldenberg, Jerusalem Academy of Music  
and Dance

### SESSION X

**Forging Bonds (3) | Corpus Studies and  
Musical Topoi**

Chair: Nathan Martin,  
University of Michigan

**13:30-14:15 | Vivaldi: Musical Syntax and  
Tonal Expansion**  
Bella Brover - Lubovsky, Jerusalem Academy of  
Music and Dance

**14:15-15:30 | A Corpus-Driven Inquiry into the  
Embodied Meanings of the Classical Minuet.**  
Olga Sanchez - Kisielewska,  
University of Chicago

**15:45-16:30 | Final Panel Discussion - Musical  
Corpus Studies Tomorrow**

**Excursion (open to all participants)**

**17:30-19:30 | Felicia Blumental Music Center  
Music Center & Library, Historic Tel Aviv**

**Organizing Committee:**

Yoel Greenberg (Bar-Ilan University)  
Uri Rom (Tel Aviv University)



Attendance free of charge,  
please register in advance  
via email to:  
corpusisrael2019@gmail.com

<https://corpusisrael2019.wixsite.com/mysite>