



Hanse-Wissenschaftskolleg
Institute for Advanced Study

Workshop

Exploring Temporal Response Functions (TRFs) in Real-World Speech Processing

Delmenhorst, 09.-10. December 2024

Organizer:

Dr. Martin Bleichner, University of Oldenburg
Prof. Elana Zion-Golumbic, Bar-Ilan University, Israel

Venue:


Hanse-Wissenschaftskolleg
Institute for Advanced Study

Lehmkuhlenbusch 4

27753 Delmenhorst

Tel: +49 4221 9160-100

www.hanse-ias.de

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Program

Monday, 9. December 2024

9:30 – 10:00 **Introduction and Welcome**
Elana Zion Golumbic & Martin Bleichner

Session 1: 'State of the Art' in TRF-based speech processing research

10:00 – 10:30 **From Sound to Meaning: Cortical Processing of Continuous Speech**
Yulia Oganian

10:30 – 11:00 **Exploring Neural Tracking in Auditory Perception Through Speech and Music**
Giovanni Di Liberto

11:00 – 11:30 *COFFEE BREAK*

11:30 – 12:00 **The Spatio-Temporal Dynamics of Speech Feature Encoding and Decoding in Aging and Aphasia**
Jill Kries

12:00 – 12:30 **Jonas Vanthornhout**

12:30 – 13:00 **Discussion: Identify challenges and potential**

13:00 – 14:30 *LUNCH*

Monday, 9. December 2024

Session 2: A Linguistic Perspective on Real-Life Speech

- 14:30 – 15:00 **Exploring Neural Processing of Real-World Speech**
Galit Agmon
- 15:00 – 15:30 **Jonathan Brennan**
- 15:30 – 16:00 **The Pragmatics of Spontaneous and Fictional Dialogues**
Daniela Landert
- 16:00 – 16:30 *COFFEE BREAK*
- 16:30 – 17:30 **Decoding Daily Discourse: Insights into Everyday Language
from a Computational Linguist**
Mark Liberman
- 17:30 – 18:30 **Playtime**
- 18:00 – 20:00 *DINNER*

Tuesday, 10. December 2024

Session 3: Studying Speech-Processing in the Real World

- 10:00 – 10:30 **EEG Beyond the Lab**
Martin Bleichner
- 10:30 – 11:00 **Speech Tracking Outside the Lab**
Martin Orff
- 11:00 – 11:30 **When EEG Goes to School: Neural Tracking During Realistic
Classroom Learning**
Elena Zion Golumbic
- 11:30 – 12:00 *COFFEE BREAK*

Tuesday, 10. December 2024

Session 4: Interactive Workshop

12:00 – 13:00	Introduce the Challenge and Break into Work Groups
13:00 – 14:30	<i>WORKING LUNCH</i>
14:30 – 15:30	Workshop Presentations
15:30 – 16:00	General Discussion
16:00 – 16:30	<i>COFFEE BREAK</i>
16:30 – 17:30	<i>Keynote Speaker – Sophie Scott</i> The Neural Symphony of Speech and Laughter: Exploring Human Social Communications
17:30 – 18:30	Summary and Farewell