



Hearing4all International Symposium 2024
The Future of Hearing
Thursday 7th November – Friday 8th November 2024
Hannover, Germany

Agenda
Thursday, 7th November 2024

Time		Chair	Room
from 07:45	Registration		
08:30 – 08:45	Welcome and Introduction (Thomas Lenarz, Birger Kollmeier)		Lecture hall
08:45 – 09:30	Yulia Oganian University of Tübingen, Werner Reichardt Centrum für Integrative Neurowissenschaften (CIN) <i>The cognitive neurophysiology of speech comprehension</i>	Christiane Thiel	Lecture hall
09:30 – 10:45	Research Thread I: Auditory processing deficits throughout the lifespan Overview by Christiane Thiel, University of Oldenburg Highlight Talks: Carolin Jüchter University of Oldenburg <i>Speech-in-noise perception across the lifespan: A comparative study in Mongolian gerbils and humans</i>	Christiane Thiel Andrej Kral Georg Klump	Lecture hall

	<p>Stephanie Rosemann University of Oldenburg <i>Neural alterations in age-related hearing loss</i></p> <p>Brilliant Hannover Medical School <i>Brain aging reflected in alpha activity under auditory-cognitive load</i></p> <p>Poster Pitches</p>		
10:45 – 11:30	Coffee Break		Lobby
11:30 – 12:15	<p>Tanja Schultz University of Bremen, Cognitive Systems Lab <i>Talk tells: Speech features-based prediction of cognitive change over the lifespan</i></p>	Birger Kollmeier	Lecture hall
12:15 – 13:00	<p>Susan Nittrouer University of Florida, Speech, Language, and Hearing Science <i>Risk and Resilience in Auditory Development and the Effects on Language Acquisition</i></p>	Esther Ruigendijk	Lecture hall
13:00 – 13:45	Lunch Break		Lobby
13:45 – 14:45	Poster Session		Lobby
14:45 – 15:30	<p>Cas Smits Amsterdam UMC, Audiological Center</p>	Birger Kollmeier	Lecture hall

	<i>Digits-in-noise tests: on the use of AI tools to replace speakers and normal-hearing listeners in the automated development process</i>		
15:30– 16:45	<p>Research Thread II: IT-based diagnostics and rehabilitation</p> <p>Overview by Andreas Büchner, Hannover Medical School</p> <p>Highlight Talks:</p> <p>Andrea Hildebrandt University of Oldenburg <i>The Oldenburg Hearing Health Data Repository</i></p> <p>Maximilian Karl Scharf University of Oldenburg <i>FADE: recent applications for an ASR-based model of speech intelligibility</i></p> <p>Lena Schell-Majoor University of Oldenburg <i>The Virtual Hearing Clinic as a research platform for data driven audiology</i></p> <p>Poster Pitches</p>	Andreas Büchner	Lecture hall
16:45 – 17:00	Coffee Break		Lobby
17:00 – 17:45	<p>Danilo Mandić Imperial College London, Faculty of Engineering <i>Machine Intelligence for eHealth: Hearables for 24/7 Doctorless Hospitals?</i></p>	Simon Doclo	Lecture hall
17:45 – 18:00	Announcements for the evening /next day		Lecture hall

19:00	Shuttle to Evening Event		
19:30	Evening Event: Wilhelm Busch Museum		

Friday, 8th November 2024

Time		Chair	Room
08:20 – 08:30	Welcome (Thomas Lenarz)		
08:30 – 09:15	<p>Stefan Stenfelt Linköping University Department of Biomedical and Clinical Sciences (MKV) <i>Effect of age and sensorineural hearing loss on sound transmission to the inner ear</i></p>	Thomas Lenarz	Lecture hall
09:15 – 10:30	<p>Research Thread III: Auditory precision medicine: research-based novel intervention methods</p> <p>Overview by Thomas Lenarz, Hannover Medical School</p> <p>Highlight Talks: Thomas Rau Hannover Medical School <i>Study report: First intraoperative force measurement in cochlear implant surgery</i></p> <p>Georg Berding Hannover Medical School <i>PET-EEG studies of speech processing in cochlea implant users</i></p> <p>Poster Pitches</p>	Athanasia Warnecke	Lecture hall

10:30 – 11:15	Coffee Break		Lobby
11:15 – 12:00	Hubert Löwenheim Universitätsklinikum Tübingen <i>Therapy of genetic hearing disorders</i>	Thomas Lenarz	Lecture hall
12:00 – 13:15	Lunch Break		Lobby
13:15 – 14:15	Poster Session		Lobby
14:15-14:45	TRC Highlights Verena Scheper Hannover Medical School <i>Bacta Implants</i> Kirsten Wagener Hörzentrum Oldenburg Innovation community HörWerk		Lecture hall
14:45 – 15:30	Torsten Dau Technical University of Denmark <i>Emerging Trends in Technical Compensation Strategies for Hearing Aid</i>	Birger Kollmeier	Lecture hall
15:30 – 16:45	Research Thread IV: The Hearing Device of the future	Volker Hohmann	Lecture hall

	<p>Overview by Volker Hohmann, University of Oldenburg</p> <p>Highlight Talks:</p> <p>Tomas Gajecki Hannover Medical School <i>Deep Learning-Driven Binaural Sound Processing for Cochlear Implants</i></p> <p>Jan Wellmann Fraunhofer IDMT Oldenburg <i>Hardware-Prototypes for Multimodal Signal Capture - an Overview</i></p> <p>Marcos Cantu University of Oldenburg <i>Real-time speech enhancement</i></p> <p>Poster Pitches</p>		
16:45 – 17:00	Farewell and closing remarks (Birger Kollmeier, Thomas Lenarz)		Lecture hall
17:00	End of Official Part of the Symposium		
17:15 – 19:15	Scientific Advisory Board		Seminar room
19:15 – 20:00	Cluster Board Meeting		

Venue

Medical Park Hannover
Feodor-Lynen-Str. 27
30625 Hannover