

## PROGRAM

**August 24, 2022**

*Anatomical building complex in Riga on 9 Kronvalda Boulevard*

17:00 – 19:00 RSU Anatomy Museum and Social Event

**August 25, 2022**

*UL Academic Center, Dabas māja (Magnum Auditorium) on 1 Jelgava Street*

10:00-10:10 Welcome

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10:10-11:10 Keynote *Chair: Prof. N. Newcombe, Temple University, USA*  
**Complementary learning systems in Memory and Navigation**  
**Charan Ranganath**  
*UC Davis Memory and Plasticity Program and Professor of Neuroscience and Psychology*

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11:10-11:50 (Remote) *Chair: Prof. N. Newcombe, Temple University, USA*  
**Navigation patterns reflect memory accuracy: insights from a naturalistic study of episodic memory evoked by olfactory, auditory, and visual cues**  
*Aya Amenssag<sup>1,2</sup>, Lucile Rey<sup>2</sup>, Jane Plailly<sup>2</sup>, Anne-Lise Saive<sup>1,3</sup>*  
<sup>1</sup> Institut Paul Bocuse Research Center, Lyon, France  
<sup>2</sup> CMO team, Lyon Neuroscience Research Center, CNRS UMR 5292 - INSERM U1028 – UCBL1, Lyon, France  
<sup>3</sup> UNIQUE Center, the Quebec Neuro-AI research center, QC, Canada

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### 11:50-12:10 Coffee

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12:10-12:50 (Remote) *Chair: Prof. A. Horner, York University, UK*  
**Episodic memory, mental time travel, and language evolution: a self-domestication approach**  
*Antonio Benítez-Burraco*  
Department of Spanish, Linguistics, and Theory of Literature (Linguistics), Faculty of Philology, University of Seville, Spain

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12:50 – 13:30 (Remote) *Chair: Prof. A. Horner, York University, UK*  
**Visuospatial working memory and Intelligence in Myopes**  
*Shiva Ram Male<sup>1</sup>, Sangita Sarma<sup>2</sup>, Vara prasad Kolla<sup>3</sup>, Phani Krishna. P<sup>4</sup>*  
<sup>1</sup>PhD.Research Scholar, School of Medical Sciences, University of Hyderabad, India,  
<sup>2</sup>Jain University, Bangalore, India  
<sup>3</sup>Professor, Kalinga University, Raipur, India.  
<sup>4</sup>Assistant Professor, Department of Linguistics, University of Delhi, India

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### 13:30-14:30 Lunch

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14:30 -15:30 Keynote *Chair: Prof. C. Ranganath, UC Davis, USA*  
**Tracking the emergence of location-based spatial representations**  
**Aidan J. Horner**  
*York Episodic Memory Lab, University of York, UK*

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15:30-16:10 (Remote) *Chair: Prof. C. Ranganath, UC Davis, USA*  
**Improving recall in hippocampal neural network models**  
*Nikolaos Andreakos<sup>1,\*</sup>, Shigang Yue<sup>1</sup>, Vassilis Cutsuridis<sup>1,2,\*</sup>*  
<sup>1</sup>School of Computer Science, University of Lincoln, Lincoln, UK  
<sup>2</sup>Lincoln Sleep Research Centre, University of Lincoln, Lincoln, UK  
<sup>\*</sup>Corresponding authors: {nandreakos, vcutsuridis} @ lincoln.ac.uk

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16:10-16:50

Chair: Prof. C. Ranganath, UC Davis, USA

**The effects of multilingual experience on episodic memory across the adult lifespan: an EEG study**

Toms Voits<sup>1</sup>, Vincent DeLuca<sup>1</sup>, Jason Rothman<sup>1,2</sup>

<sup>1</sup>UiT the Arctic University of Norway, Tromsø, Norway

<sup>2</sup>Universidad Nebrija, Madrid, Spain

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**16:50-17:15 Coffee**

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17:15-17:55 (Remote)

Chair: Prof. A. Horner, York University, UK

**Replicable patterns of directed information flow between hippocampus and prefrontal cortex during spatial navigation and spatial-verbal memory formation**

Anup Das

Columbia University

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**17:55-18:00 A short break**

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18:00-19:00 Keynote

Chair: Prof. J. Skilters, University of Latvia

**Charting Our Way in Space and Time**

Nora Newcombe

Research in Spatial Cognition (RISC) Lab, Temple University, USA

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19:00 Conference closing

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19:00-19:45 guided tour in the new campus

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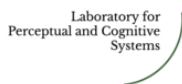
**19:45 Conference Banquet**

**August 26, 2022**

*Main building of the University of Latvia on 19 Raiņa Boulevard*

9:30 Historical University of Latvia student solitary confinement cell and roof platform

The symposium is organized by Laboratory for Perceptual and Cognitive Systems, Faculty of Computing, Faculty of Biology, University of Latvia with support by Riga Stradins University, Robert Blumberg, Latvian National Museum of Art, RSU Anatomy Museum, and the University of Latvia Foundation. It is also supported by ERDF project "University of Latvia and Institutes in European Research Area - Excellence, Activity, Mobility, Capacity" (No. 1.1.1.5/18/I/016).



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NACIONĀLAIS  
ATTĪSTĪBAS  
PLĀNS 2020



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Eiropas Reģionālās  
attīstības fonds

ĪEGULDĪJUMS TAVĀ NĀKOTNĒ



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