

# Methods in Numerical Cognition Workshop - Program

**Website** [https://www.thenumberworks.org/numerical\\_cognition\\_methods\\_workshop](https://www.thenumberworks.org/numerical_cognition_methods_workshop)

**Slides** We will ask the presenters to upload their slides to the [OSF Meetings page of the workshop](#).

**Abstracts** Come back for the abstracts later.

## Presentations

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### **Open peer-review database of methods for numerical cognition**

Attila Krajcsi 1, Bert Reynvoet 2

1 ELTE, Department of Cognitive Psychology, Hungary

2 KU Leuven, Brain and Cognition, Belgium

## Development

### **Testing intuitive multiplication**

Katalin É. Kiss, Tamás Zétényi

MTA Linguistics Institute, BME Ergonomics

### **The development of quantification in propositional attitude contexts: false belief and number in kindergarteners and grade schoolers**

Zoltán Jakab 1, Szabolcs Kiss 2

1 Eötvös Loránd University

2 University of Pécs

## Enumerating objects

### **New Method for Calculating Individual Subitizing Range**

Tali Leibovich-Raveh 1, Daniel Jacob Lewis 2, Saja Al-Rubaiey Kadhim 2, Daniel Ansari 2, Shai Gabay 1, Orly Rubinsten 1

1 University of Haifa

2 University of Western Ontario

### **Chicks spontaneously represent the absence of objects**

Eszter Szabó 1, Cinzia Chiandetti 2, Elisabetta Versace 3, Ernő Téglás 1, Gergely Csibra 1, Ágnes Melinda Kovács 1, Giorgio Vallortigara 4

1 Central European University

2 University of Trieste  
3 Queen Mary University of London  
4 University of Trento

## Visual features of nonsymbolic stimuli

### **Numerical Perception biased by saliency**

Naama Katzin, Avishai Henik, Moti Salti  
Ben Gurion University of the Negev

### **Designing non-symbolic stimuli: An extent to Dehaene's (2005) method to control for non-numerical visual cues**

Mathieu Guillaume 1, Christine Schiltz 2, Amandine Van Rinsveld 1  
1 Université Libre de Bruxelles  
2 University of Luxembourg

### **Introducing CUSTOM: a Customized Ultraprecise Standardization Oriented Multipurpose algorithm for generating non-symbolic number stimuli**

Damiano De Marco, Simone Cutini  
Department of Developmental Psychology, University of Padova

### **Measuring congruence effects in nonsymbolic number comparison: the importance of the degree of congruence**

Nicholas K. DeWind, Elizabeth M. Brannon  
University of Pennsylvania, Department of Psychology

## Symbolic and nonsymbolic processing

### **Using the full stimulus space in numerical cognition**

Petia Kojouharova 1, 2, 3, Gábor Lengyel 4, Attila Krajcsi 3  
1 Institute of Cognitive Neuroscience and Psychology, Research Centre for Natural Sciences, Hungarian Academy of Sciences  
2 Doctoral School of Psychology, Eötvös Loránd University  
3 Department of Cognitive Psychology, Institute of Psychology, Eötvös Loránd University  
4 Central European University

### **Audiovisual approach for measuring symbolic and non-symbolic number processing**

Mila Marinova 1, 2, Delphine Sasanguie 1, 2, Bert Reynvoet 1, 2  
1 Brain and Cognition, Faculty of Psychology and Educational Sciences, KU Leuven, 3000 Leuven, Belgium  
2 Faculty of Psychology and Educational Sciences, KU Leuven @Kulak, 8500 Kortrijk, Belgium

### **Same or different? The ERP signatures of uni- and crossmodal integration of number words and Arabic digits.**

Ferenc Kemény 1, Sabrina Finke 1, Anna Steiner 1, Chiara Banfi 1, Corinna M. Perchtold 1, Silke M. Göbel 2, Karin Landerl 1  
1 Institute of Psychology, University of Graz  
2 Department of Psychology, University of York

**Understanding the Role of Language in Multiple Magnitude Representation Mechanisms: An fMRI Investigation**

Sarit Ashkenazi 1, Yarden Glikzman 2, Avishai Henik 2  
1 The Seymour Fox School of Education, The Hebrew University of Jerusalem, Jerusalem, Israel  
2 Department of Psychology and Zlotowski Center for Neuroscience, Ben-Gurion University of the Negev, Israel

**What do numerical estimation tasks measure? Insights from calibration paradigms**

Darren J. Yeo 1, 2 and Gavin R. Price 1  
1 Department of Psychology & Human Development, Peabody College, Vanderbilt University, United States  
2 Division of Psychology, School of Social Sciences, Nanyang Technological University, Singapore

## Interferences and associations

**Prevalence of Spatial-Numerical Associations: Psychometric Approach**

Carrie Georges  
University of Luxembourg

**Prevalence of Spatial-Numerical Associations: Bootstrapping approaches**

Krzysztof Cipora  
Department of Psychology, University of Tuebingen, Germany; LEAD Graduate School & Research Network, University of Tuebingen, Germany

**Measuring interference effects in numerical cognition**

Gábor Lengyel 1, Attila Krajcsi 2  
1 Central European University  
2 Eötvös Loránd University

**A novel number-space mapping task: the direction, order and space (DOS) task**

Francesco Sella 1, Daniela Lucangeli 2, Marco Zorzi 2  
1 University of Sheffield  
2 University of Padova