The Cognitive and Neural Basis for the Development of Numeric Understanding

Sunday April 26th to Thursday April 30th, 2015

PROGRAM

Sunday April 26 (Beer Sheva)		
13:00-13:40	Registration	
13:40-13:50	Introduction: Rector/Dean (Ben-Gurion University of the Negev)	
13:50-14:00	Opening remarks: Avishai Henik (Ben-Gurion University of the Negev)	
NUMBER, SIZES, SPACE ¹		
14:00-14:40	Bert Reynvoet (Catholic University of Leuven) Symbolic Number Processing: Has Digit Comparison Fooled Us?	
14:40-15:20	Dan Zakay (IDC Herzliya) The Temporal-Relevance Temporal-Uncertainty Model of Prospective Duration Judgment	
15:20-15:40	Coffee Break	
15:40-16: 20	Orly Rubinsten (University of Haifa) The Ordinal Instinct: A Neurocognitive Perspective	
16:20-17:00	Martin H. Fischer (University of Potsdam) Embodied Representation of Number Knowledge	
19:00	Dinner for Speakers	
Monday April 27 (Beer Sheva)		
NUMBER, SIZES, SPACE (continued)		
09:00-9:40	Daniel Algom (Tel-Aviv University) Do Numbers Carry Emotion? Evidence from the Emotional SNARC Effect	
9:40-10:20	Shai Gabay (University of Haifa) Shared Neural Substrates for Conceptual Size and Numerical Magnitudes	

¹ Speaker talks are 30 min + 10 min Q&A; Student talks are 15 min + 5 min for Q&A

WORKING MEMORY, HIGHER COGNITIVE FUNCTIONS AND ARITHMETIC

Torkel Klingberg (Karolinska Institute) The Relationship between Visuo-Spatial Working Memory and Arithmetics – During Development and in Training
Evelyn Kroesbergen (Utrecht University) Explaining Individual Differences in Mathematics: Number Sense, Working Memory, and Creativity
Lunch for Speakers (put up posters)
Sarit Ashkenazi (The Hebrew University) Do Enumeration Processes Involve Spatial Working Memory? Evidences from Behavioral and Eye Tracking Methods
Liat Goldfarb (University of Haifa) Relationship between Numerical Processes, Statistical Learning and the Spatial System

STUDENT PRESENTATIONS

15:00-15:20	Luca Rinaldi (University of Milano-Bicocca) Mind the Space in Time: The Role of Sensorimotor Experience in Temporal Order Processing
15:20-15:40	Dana Sury (University of Haifa) Uncovering Numerical Ordinal Processing: The Use of Implicit Measures and low visual features
15:40	Poster Session (with coffee)
19:00	Dinner for Speakers

Tuesday April 28

9:00 **Organized trip** (for Speakers)

Wednesday April 29 (Haifa)

09:00-09:10 *Opening remarks*: **Lily Orland-Barak** (Dean of the Faculty of Education, Haifa University)

DEVELOPMENT DEFICIENCIES AND REHABILITATION

09:10-9:50	Daniel Ansari (University of Western Ontario) Number Symbols in the Brain and Mind
9:50-10:30	Susan Golden-Meadow (University of Chicago) - CANCELLED Communicating About Quantity without a Language Model: The Ways in Which Number Devices Are, and Are Not, Like Words in Homesign

10:30-11:10	Andrea Berger (Ben-Gurion University of the Negev) Atypical Numerosity Processing: ERP Evidence in Infants with Prenatal Alcohol Exposure
11:10-11:50	Margarete Delazer (Innsbruck Medical University) Numeracy, Processing of Probabilities and Risks and Decision Making
11:50-13:50	Lunch for Speakers
13:50-14:30	Roza Leikin (University of Haifa) On the Distinctions between Solving Conventional and Unconventional Mathematical Problems: Evidences from an ERP study
14:30-15:10	Dana Ganor–Stern (Achva Academic College) Cognitive and Developmental Perspectives of Computation Estimation
STUDENT PR	RESENTATIONS
15:10-15:30	Zahira Cohen (Ben-Gurion University of the Negev) Tactile Enumeration using Both Hands and the Effect of Numerosity Range on the Enumeration Process
15:30-15:50	Arava Kallai (Ben-Gurion University of the Negev) Behavioral and Brain Processing of Different Types of Rational Numbers
15:50-16:10	Ronit Goldman (Ben-Gurion University of the Negev) The Representation of End Stimuli and its Implications on Number Representations
19:00	Dinner for Speakers
Thursday A	pril 30 (Haifa)
NUMBER, SIZ	ZES, SPACE (continued)
9:00-9:40	Avishai Henik (Ben-Gurion University of the Negev) Numerical Cognition and Size Perception
9:40-10:20	Yossi Tzelgov (Ben-Gurion University of the Negev) In Search of the SNARC Effect in Hebrew Readers: We Looked for It, We Found It, It was There All the Time
10:20-11:00	Ruth Stavy / Reuven Babai (Tel Aviv University) Role of Salience in Comparison of Quantities
11:10-11:50	Samuel Shaki (Ariel University) Contrasting Biases in Mental Arithmetic: Operational Momentum Revisited
11:50-12:10	Concluding remarks: Orly Rubinsten
12:10	Lunch for Speakers