# **International Society for Intelligence Research (ISIR)**



December 12-14, 2014 | Graz, Austria

15<sup>th</sup> Annual Conference

Program Overview

### Short schedule for ISIR conference 2014

	DAY 1: Fri, Dec. 12		DAY 2: Sat, Dec. 13		DAY 3: Sun, Dec. 14
7:45-8:20	Registration	7:15-8:30	Student Breakfast with LAA DEARY		
8:20-8:30	Opening remarks				
8:30-9:30	Lifetime Achievement Award (LAA) DEARY	8:30-9:30	Keynote Address CASPI & MOFFITT	9:00-10:00	Holden Memorial Address PINKER
9:30-10:30	Talks: Memory & Cognitive Bias (Gignac, Giofre, Teovanović)	9:30-10:50	Talks: Intelligence & Life outcomes (Sörberg, Lynn, Meisenberg, Grabner)		
10:30-10:50	Break	10:50-11:10	Break	10:00-10:20	Break
10:50-12:30	<b>Talks: Genetics</b> (Bates, Latvala, Rimfeld, Shakeshaft, Schofield)	11:10-12:30	Symposium: Intellectual growth (Demetriou, Spanoudis, Zebec, Kazi)	10:20-12:10	Invited Presidential Symposium (Silvia, Kell, Jauk, Jung, Vartanian)
	•		,	12:10-13:40	Lunch
12:30-14:00	Lunch	12:30-14:00	Lunch	13:40-14:20	<b>Talks: Creativity</b> (Primi, de Manzano)
14:00-16:00	Talks: Methods & Psychometrics (Kovacs, Caemmerer, Johnson, Wicherts, Pietschnig, van der Maas)	14:00-16:00	Talks: Neuroscience (Haier, Yeo, Chuderski, Nussbaumer, Santarnecchi, Ritchie)	14:20-15:20	Talks: Other associations (Pässler, Saulina , Davis)
	wienerts , rietsening, van der maasj		rvassbaamer, santarneedin, meerie,	15:20-15:40	Break
16:00-16:30	Break	16:00-16:20	Break	15:40-16:00	Student Awards
16:30-17:30	ISIR Business Meeting / Get your paper published (Fraser)	16:20-17:20	Talks: Education (Berkowitz , Flore, Krammer)		
17:30-18:30	Interview DEARY	17:20-18:20	President's Invited Address: STERN		
18:30-20:30	Poster Session & Elsevier Reception				
		19:30	Conference Banquet		
<i>Note</i> . The order	of names reflects the order of presentations.	I	I		

#### International Society for Intelligence Research (ISIR) - 2014 Program: <u>Talks</u>

#### DAY 1: Friday, Dec. 12

08:20 – 08:30  Opening Remarks   Aljoscha Neubauer  Lifetime Achievement Award  My intelligence top ten: rewound/remixed   Ian J. Deary (Chair: Aljonalized)  Neubauer)  Op:30 – 10:30  Talks: Memory & Cognitive Bias Chair: Gilles E. Gignac  Memory span: The ugly duckling of intellectual assessment   G. E. Gignac  The relationship between working memory and intelligence in chilly which is the influence of the scoring procedure?   D. Giofré, Mammarella, & C. Belacchi  Individual Differences in Cognitive Biases   P. Teovanović, G. Knežević, Stankov  10:30 – 10:50  Break  10:50 – 12:30  Talks: Genetics Chair: Timothy C. Bates  The world's literature on gene × social class interactions on cognitive al A meta-analysis   T. C. Bates & E. Tucker-Drob  Paternal antisocial behavior and offspring cognitive ability: a popula based quasi-experimental study   A. Latvala et al.  From mathematics to art - pleiotropy across academic subjects at the ecompulsory education in UK   K. Rimfeld et al.  The genetic specificity of face perception   N. C. Shakeshaft, K. L. Schofier, R. Plomin  Are general and social intelligence genetically distinct? Evidence behavioural genetics   K. L. Schofield, N. C. Shakeshaft, & R. Plomin  12:30 – 14:00  1alks: Methods & Psychometrics* Chair: Jelte M. Wicherts  The nature of the positive manifold and its relation to models of intellig   K. Kovacs  Are we really overfactoring modern cognitive tests? Comparison of PCA, and CFA methods   J. M. Caemmerer, T. Z. Keith, & M. R. Reynolds  Standard formulas cannot correct distortions in results due to selectio cognitive ability in research studies   W. Johnson & I. J. Deary  Publication bias and the decline effect in intelligence research   J. Wicherts		
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(1909-2013)   <i>J. Pietschnig &amp; M. Voracek</i> Computer adaptive IQ tests   <i>H. L. J. van der Maas</i>		Publication bias and the decline effect in intelligence research   <i>J. M. Wicherts</i>
Computer adaptive IQ tests   H. L. J. van der Maas		105 years of IQ gains and counting? A meta-analysis of the Flynn effect
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TO'OO TO'OO <b>DIEAK</b>	16:00 - 16:30	
16:30 – 17:30 ISIR Business Meeting* / Get your paper published**   Adam Fraser		
Introduction: D.K. Detterman)	17.30 – 10.30	
18:30 – 20:30 Poster Session & Elsevier Reception***	18:30 – 20:30	•

All conference presentations will take place in the conference hotel Weitzer / room Styria (Friday morning, Saturday, and Sunday).

<sup>\*</sup> On Friday afternoon, the talk session, the Business meeting and the Distinguished Interview will take place in room Riverside.

<sup>\*\*</sup> The special session "Get your paper published" by Adam Fraser will take place on Friday 16:30-17:30 in room Deep Purple.

<sup>\*\*\*</sup> The poster session will take place in room *Nikolai*.

07:15 – 08:30	Student Breakfast with Lifetime Achievement Award Winner   Ian Deary
08:30 - 09:30	Keynote Address
	Early childhood origins of an ultra-high-cost segment of the population   Terrie E.
	Moffitt & Avshalom Caspi (Chair: David Lubinski)
09:30 - 10:50	Talks: Intelligence & Life outcomes Chair: Roland H. Grabner
	Does high intelligence improve prognosis? Associations of intelligence with
	recurrence and mortality in Swedish men with coronary heart disease   A. Sörberg
	et al.
	Differences in cognitive ability, per capita income, infant mortality, fertility and
	latitude across the states of India   R. Lynn & P. Yadav
	Dysgenic trends in the United States during the 20th century: toward finding the
	causes   G. Meisenberg & M. Woodley
	The predictive validity of intelligence for expertise development in tournament
	chess: An 8-year longitudinal study   R. H. Grabner, A. C. Neubauer, & E. Stern
10:50 – 11:10	Break
11:10 – 12:30	Symposium: Intellectual growth Organizer & Chair: Andreas Demetriou
	Cycles in speed - working memory - g relations: towards a developmental-
	differential theory of the mind   A. Demetriou
	Relations between speed, working memory, and intelligence from preschool to
	adulthood: Structural equation modeling of 14 studies   G. Spanoudis
	Capturing how g is expressed in successive developmental phases:
	A longitudinal study from 8 to 17 Years of age   M. Zebec
	Embedding cognizance in intellectual development   S. Kazi
12:30 – 14:00	Lunch
14:00 – 16:00	Talks: Neuroscience Chair: Richard J. Haier
	Individual differences vs group averages: Time to choose one and abandon the
	other for brain imaging studies?   R. J. Haier et al.
	Global network metrics of structural brain organization: Relationships with
	intelligence in healthy controls and individuals with schizophrenia   R. A. Yeo et
	al.
	From neural oscillations to complex cognition: Simulating the effect of the theta-
	to-gamma cycle length ratio on analogical reasoning   A. Chuderski & K.
	Andrelczyk
	The impact of task demand on neural efficiency during working memory demands
	D. Nussbaumer, R. H. Grabner, & E. Stern
	Intelligence level correlates with brain resilience to systematic and random insults
	E. Santarnecchi et al.
	Coupled changes in brain white matter structure and fluid intelligence in later life

16:00 – 16:20 **Break** 

| S. J. Ritchie et al.

#### 16:20 – 17:20 Talks: Education Chair: Michal Berkowitz

Cognitive variability among STEM students: Spatial ability, general abilities and academic field | M. Berkowitz & E. Stern

Does stereotype threat influence test performance of girls in stereotyped domains? A meta-analysis | P. C. Flore & J. M. Wicherts

General mental ability over and above domain-specific measures: Predicting academic achievement in a 3-year longitudinal study on college admission | *G. Krammer* 

#### 17:20 – 18:20 President's Invited Address

What exactly makes the difference? The impact of intelligence on academic learning | Elsbeth Stern (Chair: Aljoscha Neubauer)

19:30 Conference Banquet (Landhauskeller, see p. III)

#### DAY 3: Sunday, Dec. 14

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09:00 - 10:00	Holden Memorial Address				
	The elephant in the room: Talking about individual differences to the press				
	Susan Pinker (Chair: Yulia Kovas)				
10:00 - 10:20	Break				
10:20 – 12:10	<b>Invited Presidential Symposium</b> <i>Chairs: Aljoscha Neubauer &amp; Mathias Benedek</i>				
	Why is the intelligence and divergent-thinking literature so divergent?   P. J. Silvia				
	Replicable evidence for outstanding creative accomplishment among the top .01% of cognitive ability   <i>H. Kell et al.</i>				
	Intelligence and creativity: Bridges, gaps, and overlaps   E. Jauk et al.				
	The reason behind creative cognition   R. E. Jung				
	The prospects and perils of cognitive (brain) training for improving cognition:				
	The case for creativity   O. Vartanian				
12:10 - 13:40	Lunch				
13:40 – 14:20	Talks: Creativity Chair: Ricardo Primi				
	Using many-facet Rasch measurement in assessment of creativity with divergent productions of metaphors   R. Primi & T. de Cássia Nakano				
	The nature and nurture of creative achievement, intelligence their interrelation   Ö. de Manzano, M. A. Mosing, & F. Ullén				
14:20 - 15:20	Talks: Other associations Chair: Katja Pässler				
	Interests and intelligence: a meta-analysis   K. Pässler, A. Beinicke, & B. Hell				
	Peculiarities of sexual dimorphism in adolescents with high level of general				
	intelligence   E. B. Saulina				
	Raven's Colored Progressive Matrices (RCPM) at the lower end of the				
	educational continuum: assessing variation among the Tsimane, a traditional				
	and transitioning population   H. E. Davis et al.				
15:20 – 15:40	Break				
15:40 – 16:00	Student Awards & Farewell				

#### International Society for Intelligence Research (ISIR) - 2014 Program: Poster Presentations

#### **Poster Symposium: Group differences**

- 1. By their words ye shall know them: Evidence of dysgenic trends in vocabulary usage since the mid 19th century / M. A. Woodley et al.
- 2. It's getting better all the time!: An empirical test of the Lennon-McCartney hypothesis | *J. te Nijenhuis & I. Duursma*
- 3. The cognitive competences of immigrants and natives across the world: An analysis of gaps, causes and impact | *H. Rindermann & T. Thompson*
- 4. A meta-analysis of Roma intelligence | D. Jurášek, J. te Nijenhuis & J. Čvorović
- 5. Genetic distances and IQ differences: a cross-national study | D. Becker
- 6. National intelligence and personality: Between the heart and the mind of nations | M. Stolarski & M. Zajenkowski

## Poster Symposium: Longitudinal and cross-sectional investigations into individual differences in intelligence and educationally relevant traits.

- 7. Cross-cultural investigation of Raven's Progressive Matrices scores across the school-age years | *T. Tikhomirova et al.*
- 8. A longitudinal investigation into potential relationships between cognitive and non-cognitive factors within the classroom | E. White & Y. Kovas
- 9. Longitudinal, genetically informative study of intelligence on Russian adolescents | *I. Voronin & S. Malykh*
- 10. Do achievement and motivation for learning a second language influence each other longitudinally beyond the impact of general intelligence and emotion regulation factors? | *M. Malanchini et al.*

#### **Education and Life Outcomes**

- 11. Abstract reasoning profiles in maths and non-maths students | P. A. Edelsbrunner, L. Schalk, & E. Stern
- 12. The good, the bad, and the average a latent class analysis of cognitive and non-cognitive abilities | *J. Diedrich & A. C. Neubauer*
- 13. High- and low-achievers benefited equally from contrasted algebra materials. E. Ziegler & E. Stern
- 14. Cross-sectional study on the relations between intelligence and executive functions among Kosovar preschool children | F. R. Uka & A. von Suchodoletz
- 15. Spatial complexity of character based writing systems and arithmetic in primary school: a longitudinal study | *M. Rodic et al.*
- 16. Early-life intelligence predicts midlife biological age in a population-representative birth cohort | *J. D. Schaefer et al.*

#### **Genetics & Biological Basis**

- 17. Common genetic influences on intelligence and simple reaction time | G. Madison, M. A. Mosing, & F. Ullén
- 18. Digit ratio (2D:4D) and cognitive abilities: A meta-analytical field synopsis and critical evaluation of research | *M. Voracek, S. Stieger, & U. S. Tran*
- 19. Theta-gamma cross-frequency coupling relates to the level of human intelligence | A. Pahor & N. Jaušovec
- 20. Sex differences in the IQ-white matter microstructure relationship: A DTI study. | *A.C. Neubauer et al.*

#### **Memory and Strategies**

- 21. Conceptual abilities as a basis of expertise | O. V. Shcherbakova & D. N. Makarova
- 22. Intelligence and the development of methodological skills in higher education: The case of information literacy | *T. Rosman & A.-K. Mayer*
- 23. The impact of fluid intelligence on strategy selection and on neural efficiency of strategy execution in mathematical cognition | A.C. Dix, I. Wartenburger & E. van der Meer
- 24. The structure of general knowledge: Results from a state-of-the-art latent variable analysis among Austrian high-school students | *U. S. Tran & M. Voracek*
- 25. The contribution of temporary storage to fluid intelligence: evidence from both Brown-Peterson and complex span tasks | K. Schweizer, T. Wang, & X. Ren
- 26. Intelligence and aggression: Identifying underlying mechanisms | M. Zajenkowski

#### **Methods and Psychometrics**

- 27. How knowing the rules affects solving the Raven Progressive Matrices test | P. Loesche, J. Wiley, & M. Hasselhorn
- 28. Test instruction matters! The effect of instruction on different intelligence test tasks | C. Muller, F. Preckel & R. Martin
- 29. Digit span and the inverse Spearman effect: Within- and between-groups tests | Y. Ganzach