





Why I (don't) study social cognition in autism

Teodora Gliga



University of East Anglia (!)

You will never want to leave !



1. 1

I don't believe any of this

Communication, conceptual development

With Gergo Csibra, Denis Mareschal, Tobi Grossmann, Basia Pomiechowska, Rachael Bedford, Nadja Althaus



Communication, conceptual development

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Current methods (habituation) measure **category learning** not **prior knowledge.**

Investigate conceptual learning in the more difficult conditions of the outside world.



Nonverbal category knowledge biases the content of object representations **Barbara Pomiechowska, Teodora Gliga**







Category training made infants not notice withincategory changes.

Gamma/beta EEG activity tells us whether infants posses category knowledge



Autism & BASIS

With Mark Johnson, Mayada Elsabbagh, Tony Charman, Rachael Bedford, Carina deKlerk, Leslie Tucker, Agnes Volein, Greg Pasco, Emily Jones, Elena Piccardi, Janet Parsons, BASIS & STAARS Team



Good social orienting, gaze following and enjoyment of social interaction in infants with later ASD





Nobody cares about theory of mind in autism anymore...

Sensory and perceptual atypicalities

BETTER AT VISUAL SEARCH

Gliga, T., Bedford, R., Charman, T., Johnson, M. H.(2015). *Current Biology*, *25*(13), 1727-1730.



Nyström, P., Gliga, T., Jobs, E. N., Gredebäck, G., ... Falck-Ytter, T. (2018). *Nature communications*, *9*(1), 1678.

REDUCED SENSORY GATING



Piccardi, Begum Ali, Jones, Mason, Charman, Johnson, Gliga & STAARS. (in prep)

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Poor SOCIAL skills





Elena Piccardi







Toddlers with ASD seek and like predictable social stimulation (Vernetti, et al. 2017).



SOCIAL



SENSORY



1-2 3-4 5-6 7-8 Trial number



SNOOSE: The SeNsOry Origin of poor Sleep in Early development project

- A common (thalamic) origin for poor sensory attenuation and EEG sleep spindle generation
- Why infants need to sleep to generalize knowledge (sometimes)
- What is the difference between online and offline memory consolidation



SNOOSE

wellcometrust

Curiosity and information seeking

With Vicky Southgate, Katarina Begus, Denis Mareschal, Viktoria Csink, Cecile Gal, Raul Muresan, Marie Smith, Elena Piccardi, Claire Essex, Tim Smith

POSTERS: What do surprise and tablets do to learning?



Social touch ?

With Laura Pirazzoli, Sarah Lloyd-Fox, Mark Johnson, Teresa Farroni, Alicja Brzozowska, Frank Wiesemann, Matt Longo, Denis Mareschal

POSTER: what is social touch and what does it do ?



Most downloaded publication ?

The 'Knife Crime' phenomenon –

A psychological perspective on youth knife culture

"Looking back I know that was wrong, but at that stage you end up in the mind frame you think - fuck this" Nick, 17, (Marfleet, 2008)

Teodora GLIGA

BPS Parliamentary Office

Thank you for making science fun!



SNOOSE Team



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Jeevun Grewal Research Associate



Alpar Lazar HSC



? PhD student Deadline 20/1/20



Stephanie Summers Clinical psychologist



Hope Fincham MSc student

Collaborators from UCL, Birkbeck, Oxford, and the Center for Cognitive Neuroscience, Salzburg.



http://www.gligalab.co.uk/snoose

Toddlers with ASD orient to end enjoy predictable social stimulation



Vernetti, A., Senju, A., Charman, T., Johnson, M.H., Gliga, T. (2017) Simulating interaction: using gaze-contingent eye-tracking to measure the reward value of social signals in toddlers with and without autism. *Developmental Cognitive Neuroscience*