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- EDUCATION
- ◇ **PhD, behavioural neuroscience**, Boston University, May 2001. Thesis: *Methods and Results for Functional Magnetic Resonance Imaging of Visual Selective Attention: A Foundation for Investigating Autism*.
 - ◇ **MFA, fiction**, Sarah Lawrence College, May 1998.
 - ◇ **MS, neurosciences**, University of California San Diego, September 1994.
 - ◇ **BA, computer science and English**, Cornell University, May 1990.
- POSTS HELD
- ◇ **The Com DEALL Trust, Bangalore**. Research Advisor, May 2012 till date. Develop a research emphasis integrated within a nonprofit clinical centre for autism. Deliver training for clinicians on research ethics, scientific writing, and experimental design with emphasis on clinical trials. Validate local quantitative clinical assessments against international standards. Implement mobile-computing applications for autism diagnostic screening and for motor skills training to support communication in minimally speaking autistic children. Supervised and mentored one postdoctoral researcher.
 - ◇ **Nottingham Trent University, UK**. Reader in Psychology, December 2012 - September 2025. Conducted basic research on attention and perceptual/cognitive/motor control associated with autism and autistic traits, and translational research on communication therapy. Mentored junior colleagues on EEG/ERP study design, data acquisition and analysis, and proposal writing. Taught biological psychology, experimental behavioural research methods, clinical neuropsychology. Supervised and mentored undergraduate and postgraduate project students, doctoral students and research assistants. Assisted international student recruitment from India.
 - ◇ **United States – India Educational Foundation, Kolkata**. Fulbright-Nehru Senior Research Scholar, July 2011 - April 2012. Behavioural studies of the relationship between motor and communicative impairments in autism, and of perception, cognition, and social scaffolding in people with Asperger syndrome in South Asian cultural context.
 - ◇ **National Brain Research Centre, Manesar, India**. Visiting Professor, September 2010 - June 2011. Behavioural and functional brain imaging studies of normal population variance in autistic perceptual and social cognitive traits. Team-taught courses in cognitive neuroscience, computational neuroscience, and neuroimaging methods.
 - ◇ **Department of Human Development, Cornell University**. Assistant Professor, August 2006 - June 2010. Conducted behavioural and EEG studies of autism. Designed, procured and built the department's electroencephalography and eye tracking laboratory. Designed and taught undergraduate and postgraduate courses on autism, electroencephalography, and introductory neuroscience. Supervised undergraduate, postgraduate and doctoral projects.
 - ◇ **Autism Research Centre, Department of Psychiatry, University of Cambridge**. Senior Research Associate, July 2002 - August 2006. Functional magnetic resonance imaging of visual attention in autism.
 - ◇ **Tuneprint, Inc.**, Cambridge, Massachusetts. Senior Research Scientist, June 2001 - January 2002. Computational modelling of the human auditory system, statistical methods for automated music recognition.

- ◇ **Howard Hughes Medical Institute, New York University Center for Neural Science.** Scientific Programmer, February 1997 - July 1998. Software development for visual stimulus presentation, real-time data acquisition, and neurophysiological signal processing.
- GRANTS
- ◇ **UK National Institute for Health Research, Research for Patient Benefit PB-PG-0816-20019:** “Evaluation of Point OutWords, a Motor Skills Intervention to Promote Language Development in Non-Verbal Children with Autism: A Feasibility Study”, 6 August 2018 – 16 March 2020, £250,000. Role: PI, 20%. *This Research for Patient Benefit feasibility trial hit a priori benchmarks for progression to a definitive trial to establish clinical effectiveness, for which I will be applying in 2027 after work on relevant publications.*
 - ◇ **UK Medical Research Council Global Challenge Research Fund Foundation Grant MR/P023894/1 to B. Chakrabarti:** “Development & Validation of a Scalable Mobile Platform for Screening of Developmental Neuropsychiatric Disorders in Low-Resource Settings”, 1 April 2017 – 30 May 2019, £585,692. Role: co-investigator, 5%, in charge of software design aspects.
 - ◇ **European Research Council – Horizon 2020 #687772 to D.J. Brown:** “Managing Affective-learning THrough Intelligent atoms and Smart InteractionS”, 1 January 2016 – 31 December 2018, €618,750. Role: co-investigator, 15%, in charge of adapting for autism spectrum conditions this computersied classroom tutor which senses the student’s affect and engagement.
 - ◇ **Fundação Bial #318/14 to C.J. Howard & M.K. Belmonte:** “Neural Correlates of Tracking Changing Position of Objects”, 29 June 2015 – 31 October 2016, €47,400. Role: joint PI, 5%.
 - ◇ **Santander Universidades:** “Computer Applications to Develop Foundational Communicative Skills in Autistic Children”, 1 January 2014 – 31 July 2016, £5000. Role: PI.
 - ◇ **US Institute of International Education Fulbright-Nehru Senior Research Fellowship:** “The Autism Spectrum as a Source of Cognitive and Cultural Diversity”, 15 July 2011 – 14 April 2012, ₹7,86,500 + US\$14,850. Role: PI.
 - ◇ **US National Science Foundation Faculty Early Career Development Award BCS-0846892:** “Integrative Behavioural and Neurophysiological Studies of Normal and Autistic Cognition Using Video Game Environments”, 15 July 2009 – 30 June 2014, US\$700,000. Role: PI. (This proposal was ranked #1 of all considered by the autumn 2008 Developmental and Learning Sciences panel.)
 - ◇ **US National Center for Research Resources High-End Instrumentation Grant 1S10RR025145-01 to Yi Wang:** “3T MR Scanner for Imaging from Mouse to Human”, 1 May 2009 – 30 April 2011, US\$2,000,000. Role: co-investigator.
 - ◇ **Autism Speaks #2597:** “Video Game Environments for the Integrative Study of Perception, Attention and Social Cognition in Autism and Autism Sibs”, 1 July 2008 – 30 June 2010, US\$119,968. Role: PI.
 - ◇ **Cure Autism Now:** “fMRI of Perceptual Gating and Response Selection in High-Functioning Autism and in Autism Siblings”, 1 July 2002 – 30 June 2004, US\$80,000. Role: PI.
- AWARDS AND HONOURS
- ◇ **Trophée de la e-santé (Catégorie: Patients), Castres-Mazamet Technopole, 2021**
 - ◇ **Neil O’Connor Award for best published research in developmental disability by a scholar not more than ten years post-doctoral, British Psychological Society (Developmental Psychology Section), 2010**
 - ◇ **UK Medical Research Council scholarship to Cold Spring Harbour course on the Biology of Social Cognition, 2006**
 - ◇ **The ‘Other Prize’ for playwriting (non-student category), judged by Paul Sirett of the Royal Shakespeare Company and awarded by The Marlowe Society, Cambridge, 2004**
 - ◇ **selected for IEEE-EMBS International Summer School on Biomedical Imaging, 2002**
 - ◇ **International Society for Magnetic Resonance in Medicine student stipend, 2001**
 - ◇ **Russek Award for outstanding doctoral research, Boston University School of Medicine, 2001**
- COURSES TAUGHT
- ◇ **Nottingham Trent University, 2012 – 2025:** Biological Psychology; Research Methods; Clinical Neuropsychology; contributor to Psychological Research in Context, Individual Differences, Cognitive Neuroscience, & Clinical Aspects of Behavioural Disorders

- ◇ **National Brain Research Centre**, India, 2010 – 2011: Cognitive Neuroscience; Computational Neuroscience; Electroencephalography and Event-Related Potentials
 - ◇ **Cornell University**, 2006 – 2010: The Human Brain and Mind; Autism and the Development of Social Cognition; Autism Spectrum Conditions.
1987 – 1992: Introduction to Computer Programming (tutor); Book Arts (at Risley College).
 - ◇ **Churchill College, Cambridge**: Neurobiology Part 1B, Medical and Veterinary Sciences Tripos (supervisor).
 - ◇ **Massachusetts Institute of Technology**, 1999 – 2001: Constructing Autism; Expository Writing; Science and Engineering Writing; Crash Course in C Programming.
 - ◇ **Duke University Talent Identification Program**, summers 1998 – 2001: Theoretical Foundations of Computer Science
 - ◇ **Johns Hopkins University Center for Talented Youth**, summers 1987 – 1997: Introduction to Neuroscience; Theoretical Foundations of Computer Science
- PHD STUDENTS SUPERVISED
- ◇ **Primary supervisor**: Xiangling CHEN 2027, Psychology, Nottingham Trent University; Jeff VALLA 2013, Human Development, Cornell University.
 - ◇ **Second supervisor**: John LEVICK 2024, Psychology, Nottingham Trent University; Kathleen LINNANE 2007, Human Development, Cornell University.
 - ◇ **Assessor**: Leonardo SUTANDI 2027, Eliana ALENCAR 2022, Sarah BUGLASS 2017, Psychology, Nottingham Trent University; Ravi SHUKLA, 2014, Science Policy Studies, Jawaharlal Nehru University; Harini Alagarai SAMPATH 2014, Information Technology in Education, International Institute of Information Technology, Hyderabad.
- EXTRAMURAL SERVICE
- ◇ **Cure Autism Now**, Scientific Review Council, 2000 – 2006
 - ◇ **International Society for Autism Research**, Annual Meeting Program Committee, 2020 till date
 - ◇ **Editorial Boards**: *Molecular Autism*, 2009 till date; *Autism Research*, 2007 – 2015; *PeerJ*, 2019 – 2021; *Frontiers in Evolutionary Psychology and Neuroscience*, 2009 – 2017 (resigned from Frontiers citing my growing concerns for editorial quality and accountability).
 - ◇ **Ad hoc reviewer** for Thrasher Research Fund, Qatar National Research Fund, UK National Institute for Health Research, UK Medical Research Council, UK Economic and Social Research Council, US National Institutes of Health, US National Science Foundation, US Army Congressionally Directed Medical Research Programs, Netherlands Organisation for Scientific Research, Országos Tudományos Kutatási Alapprogramok (Hungarian Scientific Research Fund), Autism Speaks, Fondazione Telethon, Katholieke Universiteit Leuven Methusalem scheme, Weill Cornell Medical College Clinical and Translational Science Center; and for *Nature*, *Science*, *Nature Neuroscience*, *Trends in Neurosciences*, *Trends in Cognitive Sciences*, *Proceedings of the National Academy of Sciences of the United States of America*, *Philosophical Transactions of the Royal Society, Behavioral and Brain Sciences*, *Neuroscience and Biobehavioral Reviews*, *Biological Reviews*, *Journal of Neuroscience*, *Cell*, *Neuron*, *Brain*, *Cerebral Cortex*, *NeuroImage*, *American Journal of Psychiatry*, *JAMA Psychiatry*, *PLoS Biology*, *Biological Psychiatry*, and about thirty other journals: <https://publons.com/a/535472/>
 - ◇ **UK National Institute for Health Research: Applied Research Collaboration East Midlands** faculty, May 2018 till date.
 - ◇ **Psychometric test reviewer** for development of the British localisations of the Social Responsiveness Scale - 2, the Hamilton Anxiety Scale, the Clinical Global Impression Scale, and the Wechsler Abbreviated Scale of Intelligence; TransPerfect, New York.
 - ◇ **Symposia and meetings organised**
 - “Connecting Developmental Neurobiology to Evidence-Based Developmental Therapies for People with Autism Spectrum Conditions”, The Com DEALL Trust, Bangalore, 30 April – 4 May 2012 (with Dr Prathibha Karanth)

- “Autism in Central New York: Research and Practice”, a meeting for autism parents and caregivers at Cornell University, 24 October 2009
- “Autism and Abnormal Development of Brain Connectivity”, Society for Neuroscience, San Diego, 24 October 2004

INTRAMURAL SERVICE ◇ **Nottingham Trent University**, 2012 - 2025: International recruitment (India); Workshop on EEG methods for faculty and staff; Workshop on scientific communication for students; Social Sciences Research Ethics Committee; Research Committee.

◇ **Cornell University**, 2006 - 2010: Undergraduate House Fellow; Graduate Studies Committee; A.D. White Professors-at-Large nominator.

◇ **Massachusetts Institute of Technology**, 1998 - 2002: Adjunct Lecturer in Scientific and Technical Writing; Instructor, MIT Educational Studies Program; Undergraduate House Fellow; Residence System Design Team; Mediator, Office of Student Conflict Resolution and Discipline; Freshman advisor, Office of Academic Services; Reader, Undergraduate Admissions; Reader, Ilona Karmel Writing Prizes; Student Information Processing Board; Lecture Series Committee.

MANUSCRIPTS IN PREPARATION *Undergraduate co-authors are denoted by ^{ug}, MSc student co-authors by ^{pg}; Expected or realised article impacts are denoted with asterisks (*):*

***^{ug}Deakins E, ^{ug}Simpson W, Winder B, **Belmonte MK**. A dimensional relationship between autistic and paraphilic traits in the general population. Target: *Archives of Sexual Behaviour*.

Dash T, Karanth P, **Belmonte MK**. Validation of the Com DEALL Developmental Checklist and the Com DEALL Oro-Motor Assessment in Normative and Clinical Populations in India. In preparation.

***Valla JM, Brainerd CJ, Reyna VF, **Belmonte MK**. ‘Autistic’ cognitive traits predict false and veridical memory in neurotypical adults. Target: *Neuropsychologia*.

^{pg}Smalley J, **Belmonte MK**. Repetitive behaviour in Down syndrome: An adaptive response to anxiety? Target: *Journal of Intellectual Disability Research*.

***Rounds JD, Stief MS, **Belmonte MK**. Effect of sexual orientation on early visual attention to sexual stimuli: a study of event-related potentials. Target: *Social Cognitive and Affective Neuroscience*.

***Muhl-Richardson A, Zinni M, Westerfield M, Yoder KJ, Ganzel BL, Tuladhar DA, Barsky AR, Yu Y, Chen GM, Maendel JW, Keller AL, Valla JM, Townsend J, **Belmonte MK**. Visual attention in autism families: heightened P3b response to task-irrelevant stimuli indexes autistic traits. Target: *Journal of Child Psychology and Psychiatry*.

RESEARCH REPORTS Rounds JD, ***^{ug}Athilingam JC, Baker J, Post DJ, Ganzel BL, **Belmonte MK**. Emotion-related N250 and late positive event-related potentials are generated distant from their scalp locations and reflect recognition of emotions both from faces and from non-social objects. Under review by *Social Cognitive and Affective Neuroscience*.

Chakrabarty M, Dasgupta G, Bhattacharya K, Acharya RP, Halder M, Guha PC, Chatterjee SS, Dutta A, ^{pg}Nusrat S, **Belmonte MK**. Bengalis see approachability, Britons see suspicion: Convergent effects of language and culture in ‘Reading the Mind in the Eyes’. Under review by *Personality and Individual Differences*.

Williams EH, McCray G, Thompson NM, Crespo-Llado MM, Ranjan A, Gajria D, Mukherjee D, Ngoma V, Namathanga C, Nkhata R, Bennie A, Kawelama U, Midha N, Singh A, Mpakiza I, Del Bianco T, Lockwood Estrin G, Mason L, Choudhary A, Gulati S, Johnson MH, **Belmonte MK**, Jones E, Patel V, Chandran S, Bhavnani S, Mbale E, Divan G, Gladstone M, Chakrabarti B. Comprehensive neurodevelopmental assessment through non-specialists: Validation of the STREAM digital platform. Under review by *PLoS Digital Health*.

^{pg}Bickerton EE, **Belmonte MK**. Gender-specific associations of primary and secondary psychopathic traits with recognition of fear and other facial emotions. In revision for *Personality and Individual Differences*.

- Ma X, **Belmonte MK**, Zhao Y, Zhao J. Sex similarities and differences in brain dynamic functional connectivity among individuals with and without Autism Spectrum Disorders. *Human Brain Mapping* 2025; **46**(17):e70423. doi: 10.1002/hbm.70423
- Dey I, Pathak S, Chakrabarty S, **Belmonte MK**, Choudhury S, Kumar H, Chakrabarti B. Elevated autistic features in Parkinson's Disease and other motor disorders. *Autism* 2025; **29**(12):3147-3155. doi: 10.1177/13623613251362267
- Williams EH, Thompson NM, McCray G, Crespo-Llado MM, Bhavnani S, Gajria D, Mukherjee D, Del Bianco T, Lockwood-Estrin G, Mason L, Ngoma V, Namathanga C, Nkhata R, Bennie A, Ranjan A, Kawelama U, Midha N, Singh A, Mpakiza I, Gautam A, Gulati S, Johnson MH, Lancaster G, **Belmonte MK**, Jones EJH, Patel V, Chandran S, Mbale E, Divan G, Gladstone M, Chakrabarti B. Scalable transdiagnostic early assessment of mental health (STREAM): Study protocol. *BMJ Open* 2024; **14**(6):e088263. doi: 10.1136/bmjopen-2024-088263
- Dubey I, Bishain R, Dasgupta J, Bhavnani S, **Belmonte MK**; Gliga T, Mukherjee D, Lockwood Estrin G, Johnson MH, Chandran S, Patel V, Gulati S, Divan G, Chakrabarti B. Using mobile health technology to assess childhood autism in low-resource community settings in India: An innovation to address the detection gap. *Autism* 2024; **28**(3):755-769. doi: 10.1177/13623613231182801
- Dubey I, Brett S, Ruta L, Bishain R, Chandran S, Bhavnani S, **Belmonte MK**, Lockwood Estrin G, Johnson MH, Gliga T, Chakrabarti B. Quantifying preference for social stimuli in young children using two tasks on a mobile platform. *PLoS ONE* 2022; **17**(6):e0265587. doi: 10.1371/journal.pone.0265587
- Standen PJ, Brown DJ, Kwiatkowska GM, **Belmonte MK**, Galvez Trigo MJ, Boulton H, Burton A, Hallewell MJ, Shopland N, Blanco Gonzalez MA, Milli E, Cobello S, Mazzucato A, Traversi M. Teachers' perspectives on the adoption of an adaptive learning system based on multimodal affect recognition for students with learning disabilities and autism. In: Sottolare RA, Schwarz J (eds) *Adaptive Instructional Systems. Design and Evaluation. HCII 2021. Lecture Notes in Computer Science* 2021; 12792:436-452. Cham: Springer. doi: 10.1007/978-3-030-77857-6_31
- McKinney A, Hotson KL, ^{uc}Ahmed ZB, Días C, Ben Shalom D, Weisblatt EJJ, Foster J, Villar SS, Murphy S, **Belmonte MK**. Overcoming hurdles to intervention studies with autistic children with profound communication difficulties and their families. *Autism* 2021; **25**(6):1627-1639. doi: 10.1177/1362361321998916
- Chakrabarty M, Dasgupta G, Acharya RP, Chatterjee SS, Guha PC, **Belmonte MK**, Bhattacharya K. Validation of Revised Reading the Mind in the Eyes test (RMET-R) in the Indian (Bengali) population: A preliminary study. *Indian Journal of Psychiatry* 2021; **63**(1):74-79. doi: 10.4103/psychiatry.indianjpsychiatry_967_20
- ***Paul S, Arora A, Midha R, ^{uc}Vu D, Roy PK, **Belmonte MK**. Autistic traits and individual brain differences: Functional network efficiency reflects attentional and social impairments, structural nodal efficiencies index systemising and theory-of-mind skills. *Molecular Autism* 2021; **12**:3. doi: 10.1186/s13229-020-00377-8
- McKinney A, Hotson KL, Rybicki A, Weisblatt EJJ, Días C, Foster J, Villar SS, Murphy S, **Belmonte MK**. Point OutWords: Protocol for a feasibility randomised controlled trial of a motor skills intervention to promote communicative development in non-verbal children with autism. *Trials* 2020; **21**:109. doi: 10.1186/s13063-019-3931-1
- Weisblatt EJJ, Langensiepen CS, Cook B, ^{uc}Días C, Plaisted Grant K, ^{pc}Dhariwal M, ^{uc}Fairclough MS, ^{uc}Friend SE, ^{uc}Malone AE, ^{uc}Varga-Elmiyeh B, Rybicki A, Karanth P, **Belmonte MK**. A tablet computer-assisted motor and language skills training programme to promote communication development in children with autism: Development and pilot study. *International Journal of Human-Computer Interaction* 2019; **35**(8):643-665. doi: 10.1080/10447318.2018.1550176
- Sumich AL, Anderson JD, Howard CJ, Heym N, Castro A, Baker J, **Belmonte MK**. Reduction in lower-alpha power during Ganzfeld flicker stimulation is associated with the production of images and trait positive schizotypy. *Neuropsychologia* 2018; **121**:79-87. doi: 10.1016/j.neuropsychologia.2018.11.004
- ^{uc}Deane R, **Belmonte MK**. Caregiver involvement makes the difference between repetitive behaviours and engaged learning in a computer-assisted therapy for autism. In: Standen PJ, Cobb S, Brown DJ,

Gamito P, Appiah K (eds), *Proceedings of the 12th International Conference on Disability, Virtual Reality and Associated Technologies*. Reading: University of Reading, 2018, pp 204-208.

Howard CJ, Boulton H, Brown E, Arnold CPA, **Belmonte MK**, Mitra S. Engagement of the motor system in position monitoring: Reduced distractor suppression and effects of internal representation quality on motor kinematics. *Experimental Brain Research* 2018; **236**(5):1445-1460. doi: 10.31234/osf.io/c9smf

^{po}Wilson Rogers LP, Robertson J, Marriott M, **Belmonte MK**. Social cognition in intellectually disabled male criminal offenders: A deficit in affect perception? *Journal of Intellectual Disabilities and Offending Behaviour* 2018; **9**(1):32-48. doi: 10.1108/JIDOB-09-2017-0022

***Howard CJ, Arnold CPA, **Belmonte MK**. Slower resting alpha frequency is associated with superior localisation of moving targets. *Brain and Cognition* 2017; **117**:97-107. doi: 10.1016/j.bandc.2017.06.008

***Rudra A, **Belmonte MK**, Soni P, Banerjee S, Mukerji S, Chakrabarti B. Prevalence of Autism Spectrum Disorder and autistic symptoms in a school-based cohort of children in Kolkata, India. *Autism Research* 2017; **10**(10):1597-1605. doi: 10.1002/aur.1812

Rudra A, Ram JR, Loucas T, **Belmonte MK**, Chakrabarti B. Bengali translation and characterisation of four cognitive and trait measures for autism spectrum conditions in India. *Molecular Autism* 2016; **7**:50. doi: 10.1186/s13229-016-0111-y

Belmonte MK, Weisblatt E, Rybicki A, Cook B, Langensiepen CS, Brown DJ, ^{po}Dhariwal M, Saxena-Chandhok T, Karanth P. Can computer-assisted training of prerequisite motor skills help enable communication in people with autism? *2016 International Conference on Interactive Technologies and Games*, pp 13-20. Los Alamitos, California: IEEE Computer Society Conference Publishing Services, 2016. doi: 10.1109/iTAG.2016.10

(In 2014-2015 I took a hiatus from research following the birth of my son.)

Belmonte MK, Saxena-Chandhok T, Cherian R, Muneer R, George L, Karanth P. Oral motor deficits in speech-impaired children with autism. *Frontiers in Integrative Neuroscience* 2013; **7**:47. doi: 10.3389/fnint.2013.00047

Valla JM, ^{uc}Maendel JW, Ganzel BL, ^{uc}Barsky AR, **Belmonte MK**. Autistic trait interactions underlie sex-dependent facial recognition abilities in the normal population. *Frontiers in Personality Science and Individual Differences* 2013; **4**:286. doi: 10.3389/fpsyg.2013.00286

^{uc}Chen GM, ^{uc}Yoder KJ, Ganzel BL, Goodwin MS, **Belmonte MK**. Harnessing repetitive behaviours to engage attention and learning in a novel therapy for autism: An exploratory analysis. *Frontiers in Educational Psychology* 2012; **3**:12. doi: 10.3389/fpsyg.2012.00012

^{uc}Yoder KJ, **Belmonte MK**. Combining computer game-based behavioural experiments with high-density EEG and infrared gaze tracking. *Journal of Visualized Experiments* 2010; **46**:2320. doi: 10.3791/2320

***Valla JM, Ganzel BL, ^{uc}Yoder KJ, ^{uc}Chen GM, ^{uc}Lyman LT, ^{uc}Sidari AP, ^{uc}Keller AE, ^{uc}Maendel JW, ^{uc}Perlman JE, ^{uc}Wong SKL, **Belmonte MK**. More than maths and mindreading: sex differences in empathising/systemising covariance. *Autism Research* 2010; **3**(4):174-184. doi: 10.1002/aur.143

*****Belmonte MK**, Gomot M, Baron-Cohen S. Visual attention in autism families: 'unaffected' sibs share atypical frontal activation. *Journal of Child Psychology and Psychiatry* 2010; **51**(3):259-276. doi: 10.1111/j.1469-7610.2009.02153.x

***Gomot M, **Belmonte MK**, Bullmore ET, Bernard FA, Baron-Cohen S. Brain hyper-reactivity to auditory novel targets in children with high-functioning autism. *Brain* 2008; **131**(9):2479-2488. doi: 10.1093/brain/awn172

Bonneh YS, **Belmonte MK**, Pei F, Iversen PE, Kenet T, Akshoomoff NA, Adini Y, Simon HJ, Moore CI, Houde JF, Merzenich MM. Cross-modal extinction in a boy with severely autistic behavior and high verbal intelligence. *Cognitive Neuropsychology* 2008; **25**(5):635-652. doi: 10.1080/02643290802106415

***Butler J, MacCallum I, Kleber M, Shlyakhter IA, **Belmonte MK**, Lander ES, Nusbaum C, Jaffe DB. ALLPATHS: de novo assembly of whole-genome shotgun microreads. *Genome Research* 2008; **18**(5):810-820. doi: 10.1101/gr.7337908

Belmonte MK, Carper RA. Monozygotic twins with Asperger syndrome: differences in behaviour reflect variations in brain structure and function. *Brain and Cognition* 2006; **61**(1):110-121. doi: 10.1016/j.bandc.2005.12.010

***Gomot M, Bernard FA, Davis MH, **Belmonte MK**, Ashwin C, Bullmore ET, Baron-Cohen S. Change detection in children with autism: an auditory event-related fMRI study. *NeuroImage* 2006; **29**(2):475-484. doi: 10.1016/j.neuroimage.2005.07.027

Schmidt GR, **Belmonte MK**. Scalable, content-based audio identification by multiple independent psychoacoustic matching. *Journal of the Audio Engineering Society* 2004; **52**(4):366-377.

*****Belmonte MK**, Yurgelun-Todd DA. Functional anatomy of impaired selective attention and compensatory processing in autism. *Cognitive Brain Research* 2003; **17**(3):651-664. doi: 10.1016/S0926-6410(03)00189-7

*****Belmonte MK**, Yurgelun-Todd DA. Anatomic dissociation of selective and suppressive processes in visual attention. *NeuroImage* 2003; **19**(1):180-189. doi: 10.1016/S1053-8119(03)00033-8

Belmonte MK, Yurgelun-Todd DA. Permutation testing made practical for functional magnetic resonance image analysis. *IEEE Transactions on Medical Imaging* 2001; **20**(3):243-248. doi: 10.1109/42.918475

Belmonte MK. Abnormal attention in autism shown by steady-state visual evoked potentials. *Autism* 2000; **4**(3):269-285. doi: 10.1177/1362361300004003004

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Belmonte MK, Egaas B, Townsend J, Courchesne E. NMR intensity of corpus callosum differs with age but not with diagnosis of autism. *NeuroReport* 1995; **6**(9):1253-1256.

Belmonte MK. A practical attribute grammar circularity test. Cornell University Department of Computer Science Technical Report 88-920 (June 1988).

RESEARCH
REVIEWS

Mukherjee D, Bhavnani S, Lockwood Estrin G, Rao V, Dasgupta J, Irfan H, Chakrabarti B, Patel V, **Belmonte MK**. Digital tools for direct assessment of autism risk during early childhood: A systematic review. *Autism* 2024; **28**(1):6-31. doi: 10.1177/13623613221133176

Belmonte MK. Motor symptoms in the ASD diagnostic criteria: A conservative perspective. *Autism Research* 2022; **15**(9):1582-1584. doi: 10.1002/aur.2793

Belmonte MK. Other and other waters in the river: Autism and the futility of prediction. *Behavioral and Brain Sciences* 2020; **43**:e122. doi: 10.1017/S0140525X19003194

Belmonte MK. How individuals and institutions can learn to make room for human cognitive diversity: A personal perspective from my life in neuroscience. In: Bertilsson Rosqvist H, Chown N, Stenning A (eds), *Neurodiversity Studies: A New Critical Paradigm*. London: Routledge, 2020, pp 172-190. doi: 10.4324/9780429322297-16

Iao L, **Belmonte MK**, Dillon G, Grayson A, Lamb S. Atypical child development. In: Banyard P, Normann C, Dillon G, Winder B (eds), *Essential Psychology 3/e*. London: Sage, 2019, pp 467-488.

Belmonte MK. Obligatory processing of task-irrelevant stimuli: A hallmark of autistic cognitive style within and beyond the diagnosis. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* 2017; **2**(6):461-463. doi: 10.1016/j.bpsc.2017.07.002

Dasgupta J, Bhavnani S, Lockwood Estrin G, Mukherjee D, Banerjee A, **Belmonte MK**, Chakrabarti B, Divan G, Dawson G, Johnson MH, McPartland JC, Singh NC, Patel V. Translating neuroscience to the front lines: Point-of-care detection of neuropsychiatric disorders. *Lancet Psychiatry* 2016; **3**(10):915-917. doi: 10.1016/S2215-0366(16)30186-9

***Valla JM, **Belmonte MK**. Detail-oriented cognitive style and social communicative deficits, within and beyond the autism spectrum: Independent traits that grow into developmental interdependence. *Developmental Review* 2013; **33**(4):371-398. doi: 10.1016/j.dr.2013.08.004

Belmonte MK. The autism spectrum as a source of cognitive and cultural diversity. *Ranchi Institute of Neuro-Psychiatry and Allied Sciences Journal* 2011; **3**:S46-S54.

Lombardo MV, Baron-Cohen S, **Belmonte MK**, Chakrabarti B. Neural endophenotypes for social behaviour in autism spectrum conditions. In: *Handbook of Social Neuroscience* (J Decety & J Cacioppo, eds.). Oxford: Oxford University Press, 2011, pp 830-847.

¹⁰Yoder KJ, **Belmonte MK**. Information processing and integration. In: *Autism Spectrum Disorders* (DG Amaral, G Dawson & DH Geschwind, eds.). New York: Oxford University Press, 2011, pp 1010-1027.

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‘Profoundly Autistic Children who Understand More than they Can Say: Expressive Language Deficit in the Context of Oral Motor Impairment’, International Society for Autism Research, 16 May 2024

‘Different Kinds of Autistic Traits Differently Affect Face Perception in Different Genders: Why You Should Include Sex/Gender in your Model’, Experimental Psychology Society, 11 April 2024

‘Touchscreen Training of Fine Motor Skills in Autistic Children with Impaired Speech and Motor Function but Spared Receptive Language’, Experimental Psychology Society, 8 July 2021

‘Touchscreen Training Increases Smoothness of Hand Movements in Autistic Children with Impaired Speech and Motor Function’, Association for Psychological Science, 26 May 2021

‘Verbal, Social and Motor Skills in Minimally-speaking Autistic Children: Baseline Profiles and Intervention Effects on Observational Assessments and Movement Kinematics’, International Society for Autism Research, 5 May 2021

‘Skills profiles in minimally-speaking autistic children: Functional assessments of motor and language ability and touchscreen interactions’, Society for Neuroscience, 11 January 2021

‘Feasibility Results of a Randomised Controlled Trial of Point OutWords: A Caregiver-Delivered, iPad-Assisted Motor Skills Therapy to Develop Typed Communication in Non-Speaking Children with Autism’, *Autistica*, 9 July 2020

‘Using Naturalistic Interactions in Clinical Trial Design for Minimally Verbal Autism: Lessons from a Motor Communication Skills Intervention’, International Society for Autism Research, 3 June 2020

‘Point OutWords, a Motor Skills Intervention to Promote Communication in NonVerbal Children with Autism’, British Psychological Society, Stoke-on-Trent, 4 September 2019

‘Computer-aided therapy to promote motor development in autistic users’, National Institute for Health Research - Clinical Research Network Eastern, Child and Youth Research Collaboration Event, Girton College, Cambridge, 29 May 2019

‘Motor Skills Training to Develop Communication in an Expressive Language Impaired Subtype of Autism’, International Convention of Psychological Science, Paris, 9 March 2019

‘Point OutWords: A Caregiver-Delivered, Computer-Assisted Intervention for Autism in India and Beyond’, International Society for Autism Research, Montréal, May 2019

‘Clinical Priorities in Autism: Sleep, Sensorimotor Control and Communication’, International Convention of Psychological Science, Paris, March 2019

‘Open-Source Tools for Autism: Diagnostic Screening, Research Evaluation, and Communication Therapy’, British Psychological Society, Nottingham, May 2018

‘Sexual Orientation Determines Early Attentional Enhancement of Preferred Sexual Stimuli’, Experimental Psychology Society, Leicester, April 2018

- ‘Individual Variations in Autistic Traits are Reflected in Brain Network Topologies: Behavioural, Psychometric, and Neuroimaging Assays’, Experimental Psychology Society, Leicester, April 2018
- ‘Can Computer-Assisted Training of Prerequisite Motor Skills Help Enable Communication in People with Autism?’, International Society for Autism Research, San Francisco, 2017
- ‘Autistic and typical individual differences in facial emotion perception and other social cognitive traits correlate with cognitive event-related potentials in two non-social target detection tasks: A role for domain-general cognitive control?’, British Psychological Society, Nottingham, April 2016
- ‘Cognitive Neurophysiological Predictors of Individual Differences in Social Responsiveness’, British Society for the Psychology of Individual Differences, Nottingham, April 2016
- ‘Frontal N250 is Generated near the Temporo-Parietal Junction and Reflects Recognition of Emotions from Both Faces and Non-Social Objects’, British Psychological Society (Cognitive Section), Nottingham, September 2014
- ‘Design of a Touch-Screen Computer Application to Develop Foundational Motor Communicative Skills’, International Society for Autism Research, San Sebastián, May 2013
- ‘Abnormal Attentional Modulation of Visual Perception in Autism and Clinically Unaffected Sibs’, British Association for Cognitive Neuroscience, Nottingham, April 2013
- ‘Brain Mechanisms of Perceptual Construal and Psychological Distance, across the Autism Spectrum and across Cultures’, 19th Biennial Meeting of the International Society for Developmental Neuroscience, Mumbai, January 2012
- ‘Can Efficiency of Frontal Activation Rescue Unaffected Sibs from the Autism Phenotype?’, Society for Neuroscience, Chicago, October 2009
- ‘An Extensible, Experimental Video Game for Autism Research and Therapy’, International Society for Autism Research, Chicago, May 2009
- ‘Cognitive and Physiological Variation within and beyond the Autism Phenotype’, International Conference on Innovative Research in Autism, Tours, April 2009
- ‘A New Way to Study and to Treat Autism Spectrum Conditions: Video Games for Ecologically Valid Measurement and Therapy’, International Society for Autism Research, London, May 2008
- ‘Visual Attention in Autism Families: “Unaffected” Sibs Share Atypical Frontal Activation but not Atypical Functional Connectivity’, Society for Neuroscience, San Diego, November 2007
- ‘Who in a Susceptible Family Develops Autism? A Question of Functional Connectivity’, International Society for Autism Research, Seattle, May 2007
- ‘Does the Experimental Scientist Have a “Theory of Mind”?’, From the Brain to Human Culture, Bucknell University, April 2007
- ‘Hypoactivation and Hypoconnectivity of Integrative Brain Regions in a Non-Social Attention Task in Autism-Spectrum Boys and their Normal Brothers’, International Society for Autism Research, Montréal, June 2006
- ‘Autism and the Narrative Organisation of Perceptual and Cognitive Experience’, Literature and the Cognitive Sciences, Storrs, Connecticut, April 2006
- ‘Human, but More So: What the Autistic Brain Tells Us about the Process of Narrative’, Autism and Representation: Writing, Cognition, Disability (Society for Critical Exchange), Cleveland, October 2005
- ‘Brain Connectivity and Narrative Coherence in Autism’, Autism Cymru (Cardiff), October 2005
- ‘Normal Sibs of Children with Autism Share Negative Frontal but not Positive Sensory Abnormalities: Preliminary Evidence from fMRI during Processing of Visual Distractors’, Society for Neuroscience, San Diego, October 2004
- ‘Autism and Abnormal Development of Brain Connectivity: Functional Consequences and Possible Neural Antecedents’ (symposium chair), Society for Neuroscience, San Diego, October 2004
- ‘Small-world Network Properties and the Emergence of Social Cognition: Evidence from Functional Studies of Autism’, Third International Conference on Development and Learning, San Diego, October 2004

'fMRI of Event-Related Response to Visual Distractors in Autism', International Society for Autism Research, Sacramento, May 2004

'Functional Anatomy of Compensatory Processing in Autistic Attention: Complementary Roles of Selection and Suppression', International Society for Autism Research, Orlando, November 2002

'Enhancement and Suppression during Shifting of Visual Spatial Attention: An fMRI Study of Normal and Autistic Responses', Society for Neuroscience, San Diego, November 2001

'fMRI Evidence for Generalised Arousal as a Substitute for Early Selection in Autism during Conditions of Shifting Visual Spatial Attention', International Society for Autism Research, San Diego, November 2001

'An Optimised Permutation Test for fMRI Analysis', International Society for Magnetic Resonance in Medicine, Glasgow, April 2001

'An Optimised Permutation Test for fMRI Analysis', fMRI Experience III, King's College London, April 2001

'Posterior Cortical Activation in Directed Attention: An fMRI Study', Cognitive Neuroscience Society, New York, April 2001

'Physiological Evidence for Loss of Fine Attentional Control in Autism', Sixth Autism-Europe Congress, Glasgow, May 2000

'Neuroscience for High-Ability Secondary School Students', Society for Neuroscience, New Orleans, October 1997

'Abnormal Attention in Autism Demonstrated by Lack of Modulation of a Steady-State Visual Evoked Potential', Cognitive Neuroscience Society, Boston, April 1997

'Modulation of a Steady-State Visual Evoked Potential by Shifts of Visual Spatial Attention in Normal Subjects and in People with Autism', Society for Neuroscience, Washington, November 1996

'Shifts of Visual Spatial Attention Modulate a Steady-State Visual Evoked Potential', Cognitive Neuroscience Society, San Francisco, April 1996

INVITED
LECTURES

The Many Autisms: Past, Present, and Future

Featured panel, International Society for Autism Research, Prague, 23 April 2026

What causes autism depends what we mean by 'cause', and what we mean by 'autism'

3rd Global Autism Convention, St John's National Academy of Health Sciences, Bangalore, 22 January 2026. <https://GlobalAutismConvention.com/>

Point OutWords: Targeted Treatment for a Subtype of Autism with Minimal or No Speech but More Intact Receptive Language

3rd Global Autism Convention, St John's National Academy of Health Sciences, Bangalore, 23 January 2026. <https://GlobalAutismConvention.com/>

Minimally Speaking Autistic People Who Understand More than They Can Say: Identification and Targeted Intervention

Autism Research Centre, University of Cambridge, 3 December 2025

Robert Roberson, Autism, and Injustice

Autism Society of Texas & The Innocence Project, 24 September 2025

Dissociating Language from Speech in a Motor-Impaired Subtype of Profound Autism

17th Asian Oceanian Congress of Child Neurology, Delhi, 17 September 2025

Point OutWords: Targeted Intervention for Motor-Impaired Individuals with Autism Who Understand More than They Can Say

'Understanding the Enigma of Autism Spectrum Disorder', All India Institute of Medical Sciences, Delhi, 16 September 2025

'Do Dimensional Autistic Traits, Cognitive Sex Differences, Culture, Psychological Distance and Level of Construal All Tap a Major Axis of Variation in Cognition and Brain Connectivity?', Holland Bloorview Hospital, Toronto, 20 August 2024

Complex Communication Needs across the Lifespan

- Featured panel, International Society for Autism Research, Melbourne, 18 May 2024
- Point OutWords: A Motor Skills Therapy to Promote Communication in Autistic Children Who Speak Few or No Words
St John's National Academy of Health Sciences, Bangalore, 6 May 2024
- Debate on Neurodiversity
Center for Mind and Brain, University of California Davis, 5 November 2021
- Co-Developing Assessments and Treatments that work with– not against– People with Autism
India Autism Center, Kolkata, 10 January 2020
- Dimensional Relationships between Autistic Traits and Brain Structure and Function
Inter University Centre for Biomedical Research and Super Specialty Hospital, Mahatma Gandhi University, Kottayam, 20 December 2018
- Genes, Brains and Autistic Traits
Global Autism Convention, St John's National Academy of Health Sciences, Bangalore, 11 December 2018
- Point OutWords: A Caregiver-Delivered, Computer-Assisted Motor and Communicative Skills Therapy for Autism, Developed in India for the World
Global Autism Convention, St John's National Academy of Health Sciences, Bangalore, 10 December 2018
- Point OutWords: A Caregiver-Delivered, Computer-Assisted Motor and Communicative Skills Therapy for Autism
"Sapienza" Università di Roma, 26 October 2018
- Autism as a Dimensional Construct, from Cognitive Neurophysiology to Behaviour
"Sapienza" Università di Roma, 25 October 2018
- It's about Communication: India's Achievements, Promise, and Challenges in Autism Science
Indian Speech and Hearing Association, Kolkata, 5 January 2017
- Teaching and Learning from Students with Autism
Open Mind, Thrissur, 21 December 2016
- Computer-Assisted Training for People with Autism who Lack Communicative Speech: Can Remediating Sensorimotor Dyscontrol Open a 'Back Door' to Social Communicative Development?
Autism Research Centre, University of Cambridge, 17 March 2016
- Subtyping Autism in Diagnosis and Therapy: Remediating Sensorimotor Dyscontrol Opens a 'Back Door' to Social Communication
University of Sheffield, 26 February 2016
- Autism as a Difference of Neural Connectivity: An Update on Causes and Treatments after a Decade of Research
"Psychological Perspectives on Autism", University of East Anglia, 8 June 2015
- Autism, Cognitive Integration, and the Integration of the Cognitive Sciences
Indian Institute of Technology Gandhinagar, 16 August 2013
- Autistic Behavioural and Physiological Traits Index Emergent Social and Non-Social Cognitive Differences across the Autism Spectrum, between the Sexes, and between Cultures
Institut Pasteur, 31 May 2013
- Autism and Human Cognitive Diversity, from Physiology to Psychology to Pedagogy
Autism Research Centre, University of Cambridge
29 June 2012
- Autism from Synapse to Cognition, Behaviour, and Therapy
"International Conference on Innovative Research in Autism",
Tours, France, 31 May 2012
- Autism Theories and Therapies
V-Excel Centre for Research and Rehabilitation, Shastri Nagar, Chennai, 24 March 2012

Autism as Scientist and Son

V-Excel Trust, Mandaveli, Chennai, 17 March 2012

Autism: Assumptions of Synchrony and Simultaneity Underlie (Therapists') Deficits in Perspective-Taking

Department of Speech Language and Hearing Sciences, Sri Ramachandra University, Porur, Chennai, 13 March 2012

Understanding Autistic Brains Shows How to Work with (and not against) Autistic Minds

WE CAN, Blue Beach, Chennai, 11 March 2012

How Teachers Change Brains

V-Excel Trust, Mandaveli, Chennai, 10 March 2012

Biological and Cultural Determinants of Autism, from Genes to Neural Information Processing to Behaviour

Heritage Institute of Technology, Kolkata, 3 February 2012

आतिस्त्िक मसाला: Biology's Interaction with Cultural and Social Context, from End to End of the Autism Spectrum

Ummeed Child Development Centre, Mumbai, 14 January 2012

Autism Susceptibilities Underlie Broader Human Cognitive Variation, from Genes to Synapses to Behaviour

"Frontiers in Neuroscience and Genetics",

Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata, 23 December 2011

Autism and the Battle of the Self: How the Human Brain and Mind Make Sense of a Disconnected World
Autistic Children's Welfare Foundation School, Chittagong, 1 December 2011

The Same Genes that Make Autism Make Engineers: The Double-Edged Sword of Human Cognitive Diversity

Autistic Children's Welfare Foundation School, Chittagong, 30 November 2011

Autism Theory and Therapies

Autism Society of West Bengal, Kolkata, 26 November 2011

Autism Theory and Therapy

The Com DEALL Trust, Bangalore, 21 November 2011

Culture and Cognition: A View from Clinical and Typical Cognitive Variations

11th Biennial National Conference of the Indian Association for Child and Adolescent Mental Health, Saint John's National Academy of Health Sciences, Bangalore, 18 November 2011

Electroencephalography in Pædiatric Age Groups and its Clinical Utility

11th Biennial National Conference of the Indian Association for Child and Adolescent Mental Health, St John's Medical College, Bangalore, 16 November 2011

Genes for Autism, Genes for Engineering: How Ability and Disability Come in the Same Package

UDBHAAS Child Development Centre, Paikpara, Kolkata, 5 November 2011

Connecting Autism

India Habitat Centre, Delhi, 1 November 2011

Perceptual Integration in Autism: Physiological Theory, Behavioural Observation, and Therapeutic Intervention

29th Annual Meeting of the Indian Academy of Neurosciences, Delhi, 31 October 2011

The Autism Spectrum as a Source of Cognitive and Cultural Diversity

"International Conference on Transcultural Psychiatry",

Ranchi Institute of Neuro-Psychiatry and Allied Sciences, 24 September 2011

Autism and Asperger Syndrome at the Intersection of Biology and Culture

Indian Association of Biomedical Scientists (Kolkata chapter),

KPC Medical College, Jadavpur, Kolkata, 20 August 2011

- “Neuroimaging – Experimental Design and Analysis Tools”,
Centre of Behavioural and Cognitive Sciences, University of Allahabad, 22-23 July 2011
- Neural and Narrative Connectivity in Autism, from Theory to Therapy
“Embodied and Narrative Practices: Clinical and Practical Applications”,
University of Hertfordshire, 12 July 2011
- Is the Science of Autism the Science of Human Cognitive Diversity?
Department of Psychology, Georgetown University, 23 June 2011
- Categorical and Dimensional Autistic Traits, and Global and Local Network Entropies: Cognitive and Neural Variation within and beyond the Autism Spectrum
Centre for Neuroscience, Indian Institute of Science, Bangalore, 18 May 2011
- Genetics and Neural Computation Bind Autism to Human Cognitive Diversity
 - Computer Game Environments for Experimental Control with Ecological Validity
- Indian Institute of Science Education and Research, Pune, 15-16 April 2011
- Understanding Autistic Behaviour as a Normal Human Reaction to a Disconnected Perceptual and Cognitive World
Forum for Autism, Mumbai, 8 April 2011
- Autism– What Functional Brain Imaging Can and Cannot Tell Us about Perception, Cognition and Consciousness
Bhaktivedanta Institute, Mumbai, 8 April 2011
- Listening to Autism: Taking Account of Each Individual’s Biology, Cognition, and Learning Style
Ummeed Child Development Centre, Mumbai, 7 April 2011
- Autism Lights the Way from Genetics and Neural Computation to the Twenty-First-Century Science of Human Cognitive Diversity
Tata Institute of Fundamental Research, Mumbai, 6 April 2011
- The Quintessence of Humanity in Autistic Genes, Brains, and Minds
National Conference on Autism, Institute For Communicative And Cognitive Neurosciences,
Shoranur, Kerala, 2 April 2011
- Variations in Neural Information Processing Determine Cognitive Type within and beyond the Autism Spectrum
Centre for Neuroscience, Department of Biotechnology, Cochin University of Science and Technology,
28 March 2011
- Cognitive Neurophysiology of Autism
Amrita Institute of Medical Sciences, Kochi, Kerala, 28 March 2011
- Significance-Testing Physiological Time Series with Resampling Statistics
 - Fundamentals of Cognitive Electroencephalography
 - Event-Related Data Analysis: A Practical Tutorial Using EEGLAB
- Centre of Behavioural and Cognitive Sciences, University of Allahabad, 3-5 February 2011
- Harnessing Within-Group Variance to Understand Autistic Neurophysiology and Cognition
Indian Statistical Institute, Kolkata, 2 February 2011
- What the Neurophysiology of Autism Tells Us about the Nature of Mental Representation
Centre for Cognitive Science, Jadavpur University, 1 February 2011
- Human, but More So: Autism, Level of Construal, and Lacan’s « Meurtre de la Chose »
Department of Philosophy, University of Hyderabad, 13 January 2011
- Serious Games as a Tool for Measuring and Modifying Human Cognition
International Institute of Information Technology, Hyderabad, 12 January 2011
- Autistic Disorder or Autistic Variation? Behaviour, Physiology and Genetics Entwine Autism with Human Cognitive Diversity
Centre for Neural and Cognitive Sciences and Department of Philosophy,
University of Hyderabad, 10 January 2011

- Computer Games Combine Experimental Control with Ecological Validity in Measurement and Training of Cognitive Skills
Centre for Neural and Cognitive Sciences, University of Hyderabad, 6 January 2011
- Physiological Indicators of Low Level of Construal Unify Social and Non-Social Autistic Cognitive Traits: fMRI, EEG and Behavioural Studies
International Conference on Recent Advances in Cognitive Science,
Department of Psychology, Banares Hindu University, Varanasi, 19 December 2010
- Understanding Human Cognitive Variation within and beyond the Autism Spectrum – a Paradigm for the Multivariate Cognitive Neuroscience of the Twenty-First Century
International Conference on Cognitive Development,
Centre of Behavioural and Cognitive Sciences, University of Allahabad, 13 December 2010
- Neuroimaging of Brain-Behaviour Correlations within and beyond the Autism Spectrum: Common Substrates for Social and Non-Social Cognitive Skills
5th Congress of the Federation of Asian and Oceanian Neuroscience Societies, Lucknow, 28 November 2010
- The Autism Spectrum as Clinical Disease and as Human Diversity
Centre for Studies in Science Policy, Jawaharlal Nehru University, 10 November 2010
- Autism, Part and Parcel of Human Cognitive Diversity
British Psychological Society (Developmental Psychology Section), London, 14 September 2010
- Autism Is a Foundation of Human Cognitive Diversity
Program in Neuroscience, Tulane University, 9 September 2010
- Human Cognitive Diversity within and beyond the Autism Spectrum
The Groden Center, Providence, Rhode Island, 18 August 2010
- Dimensional and Emergent Aspects of Human Cognitive Variation within and beyond the Autism Spectrum
New York State Institute for Basic Research in Developmental Disabilities, 17 August 2010
- Behavioural and Neural Variation within and beyond the Autism Spectrum: Perceptual Detail, Cognitive Distance, and Human Diversity
Kennedy Center for Excellence in Developmental Disabilities, Vanderbilt University, 10 May 2010
- What People with Autism Spectrum Conditions Can Teach Us about How to Teach Them
'Mind and Body in Autism,' 4th Annual Conference, Columbia University Teachers College, 16 April 2010
- Autism as a Science and Autism in the Family, a Case of Weak Coherence
Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, 15 April 2010
- All Too Human: The Autism Spectrum and Human Cognitive Diversity
1st Annual Distinguished Lecture on Autism, Kennedy Krieger Institute, Baltimore, 15 April 2010
- Computer Game Environments for Ecologically Valid Cognitive Testing
(or How to Study Complex Traits and Disorders by Playing Lots of Video Games)
Department of Psychology, University of Reading, 28 January 2010
- Between Two Cultures: Autism in the Family and Autism as a Science
Action for Autism, Delhi, 24 January 2010
- What Research Can Tell Us about Autism, and about Humanity
Tamana School of Hope, Delhi, 23 January 2010
- How We Can Teach People with Autism, and How They Can Teach Us
Tamana School of Hope, Delhi, 22 January 2010
- Using Behaviour and Physiology to Characterise Familial Autism Risk and Resistance
Children First, Delhi, 20 January 2010
- Frontal Lobe Physiology and Autistic Traits within and beyond the Autism Phenotype
National Brain Research Centre, Manesar, India, 18 January 2010

- Linking Behavioural, Physiological and Molecular Aspects of Familial Autism Risk and Resistance
Indian Institute of Chemical Biology, Kolkata, 15 January 2010
- Human, but More So: What Autism Science and Autistic People Can Teach Us
Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata,
7 January 2010
- Harnessing Population Variance to Link Behaviour, Physiology and Genetics in Familial Autism Risk
and Resistance Factors
Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata,
6 January 2010
- “Autism from Childhood to Adulthood” (panelist)
Penn State Public Broadcasting,
Pennsylvania State University, 25 March 2009
- What Science Can Tell Us about Autism and What Autism Can Tell Us about Science
Autism and Developmental Disorders Colloquium Series,
Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, 4 March 2009
- Autistic Neural Information Processing is ‘All in the Family’
Società Italiana per la Ricerca e la Formazione sull’Autismo, Milano, 28 November 2008
- Behavioural and Physiological Phenotypes in Autism Families
Fondazione Santa Lucia, Roma, 25 November 2008
- Bringing the Laboratory to Life: Computer Games as a Tool to Understand and to Develop Autistic
Brain Function in Naturalistic Contexts
Associazione Genitori Soggetti con Autismo, Veneto, 22 November 2008
- Family Connections: Brain Wiring in Autistic and ‘Unaffected’ Sibs
Center for Autism Research, Children’s Hospital of Philadelphia, 13 November 2008
- What is Autism? Clinical Phenotypes
Autism Speaks, Santa Monica, California, 1 June 2008
- Designing Serious Video Games for Autism Research and Treatment
Department of Information Technology, Rochester Institute of Technology, 11 April 2008
- Real Skills in Imaginary Worlds: Using Video Games to Measure Cognition and Physiology in Autism
Families
Department of Psychiatry, Mount Sinai School of Medicine, 26 March 2008
- Video Game Play as an Ecologically Valid Measure of Autistic Behaviour and Physiology
BBN Technologies, Cambridge, Massachusetts, 10 October 2007
- Fictive Worlds Bring Out Real Skills: Video Game Environments for Assessing Autistic Cognition
Program in Interactive Media and Game Development, Worcester Polytechnic Institute, 27 September
2007
- Neural Connectivity, Narrative Connectivity, and the “Thing Itself” in Autistic Perceptual and Cognitive
Experience
“Narrative Alternatives to Theories of Mind”, University of Hertfordshire, 15 July 2007
- Who in a Susceptible Family Becomes Autistic? Connectivity in Genes, Neurones, and Cognition
Institut Pasteur, 29 June 2007
- Autistic Neural Information Processing, from Attention to Social Cognition
Media Lab, Massachusetts Institute of Technology, 3 April 2007
- Connecting Social and Non-social Phenotypes to Neural Models of Autism Susceptibility
International Graduate School of Neuroscience, Ruhr-Universität Bochum, 5 March 2007
- Neural and Narrative Connectivity in Autistic Perceptual Experience
Humanities Center, Harvard University, 5 April 2006
- What Makes a Brain Autistic? Neural and Narrative Connectivity in the Emergence of Cognition
Department of Cognitive Science, Case Western Reserve University, 8 February 2006

What Makes a Brain Autistic? Abnormal Neural Information Processing and the Emergence of Social Cognition

Department of Human Development, Cornell University, 2 February 2006

Altered Neural Information Processing in Autism: Developmental Causes and Developmental Consequences
Institute of Cognitive Neuroscience, University College London, 4 October 2005

What Makes a Brain Autistic? Developmental Endpoints in Functional Neuroanatomy

Institut de Neurobiologie de la Méditerranée / Trends in Neurosciences 4th annual meeting, La Ciotat, France, 6 September 2005

Text, Mind, and Meaning: The Autistic Brain and What It Tells Us about the Process of Narrative

Hampshire College, 21 February 2005

“Autism in Twentieth Century America” (guest lecturer)

Department of Science and Technology Studies, Cornell University, 2-4 November 2004 & 7 February 2006

Autism and Art

Risley College, Cornell University, 3 November 2004

Autism as a Disorder of Neural Connectivity

Fourth International Congress on Genetics and Regeneration in Neuroscience, Terni, Italy, 28 June 2004

Research into the Neurocognitive Aspects of Autism

Nancy Lurie Marks Family Foundation, Boston, 23 March 2004

Imaging Altered Information Processing in Autism

Child Study Center, Yale University, 14 February 2003

Neurophysiological Studies of Selective Attention in Autism

National Autistic Society, London, 28 October 2002

The Centre Cannot Hold: Unifying the Many Aspects of the Autism Phenotype

Cure Autism Now, Santa Monica, April 2002

Physiological Studies of Attention in Autism: Implications for Autistic Cognition and Behaviour

Cure Autism Now, Santa Monica, January 2002

Attention and Specialisation of Function in the Autistic Brain

Cure Autism Now, Illinois Chapter, September 1999

Brain Structure and Function Yield Clues to the Nature of Autism

The Autism Society of Greater Philadelphia, July 1997

A Practical Introduction to the Synthesiser Generator

The Polytechnic of Central London, September 1990