

Meng-Chuan Lai [賴孟泉]

<u>Nationality:</u> Taiwan <u>Gender:</u> Male <u>Date of birth:</u> December 13 th , 1976 <u>Language:</u> English, Mandarin Chinese, Southern Min	Douglas House, 18B, Trumpington Road Cambridge CB2 8AH, United Kingdom Tel: +44-1223-746062 mcl45@cam.ac.uk
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EDUCATION

- 2008-2011 Department of Psychiatry
University of Cambridge, United Kingdom
Doctor of Philosophy
- 1995-2002 School of Medicine, College of Medicine
National Taiwan University, Taiwan
Doctor of Medicine
- 2001 (March-May) Harvard Medical School
Harvard University, U.S.A.
International Student
(Course: pediatric endocrinology and medical anthropology)

EMPLOYMENTS

- Oct 2011 till date Autism Research Centre, Department of Psychiatry,
University of Cambridge
Research Associate
- Aug 2013 till date Department of Psychiatry, College of Medicine,
National Taiwan University
Adjunct Assistant Professor
- Jan 2013 till date Cambridge Lifespan Asperger Syndrome Service
(CLASS) clinic, Cambridgeshire and Peterborough
NHS Foundation Trust (CPFT)
Clinical Observer
- Aug 2008 till date Children's Mental Health Center and Department of

Psychiatry, National Taiwan University Hospital
*Adjunct Attending Psychiatrist (Honorary
Consultant Psychiatrist)*

July 2006 – June 2008 Division of Child and Adolescent Psychiatry,
Department of Psychiatry, National Taiwan
University Hospital
*Clinical Research Fellow in Child and Adolescent
Psychiatry*

July 2002 – June 2006 Department of Psychiatry, National Taiwan
University Hospital
Resident and Chief Resident in Psychiatry

LICENSURE AND CERTIFICATION

1. National Board of Child and Adolescent Psychiatry, Taiwan: 2007 till date
2. National Board of Psychiatry, Taiwan: 2006 till date
3. National Board of General Medicine, Taiwan: 2002 till date

MEMBERSHIPS

1. Member, International Society for Autism Research, 2009 till date
2. Member, Organization for Human Brain Mapping, 2012 till date
3. Member, Taiwanese Society of Psychiatry, 2004 till date
4. Member, Taiwanese Society of Child and Adolescent Psychiatry, 2006 till date
5. Member, Taiwanese Society of Suicidology, 2008 till date
6. Member, Taiwanese Society of Schizophrenia Research, 2009 till date
7. Member, International Society for Bipolar Disorders, 2006-2008
8. Member, Girton College, University of Cambridge, 2008-2011
9. Fellow, Cambridge Overseas Society, 2008-2011
10. Elected Fellow, Cambridge Philosophical Society, 2009 till date
11. Fellow, Wolfson College, University of Cambridge, 2012 till date

TEACHING EXPERIENCES

Lectures

1. Lecturing in Psychological and Behavioural Sciences Tripos, Part II, **Biological and Cognitive Psychology: Autism** at the Department of Psychology, University of

Cambridge, March 2013

2. Lecturing in **Psychiatry** for 6th year medical students at the School of Medicine, National Taiwan University, January 2013
3. Lecturing in **Medical Psychology** for 2nd year medical students at the School of Medicine, National Taiwan University, May 2008
4. Lecturing in **Psychiatry** for 3rd year occupational therapy students at the Department of Occupational Therapy, National Taiwan University, Sep 2005 – June 2007
5. Lecturing in **Psychiatric Nursing** for 3rd year nursing students at the Department of Nursing, National Taiwan University, Sep 2005 – June 2006

Supervisions for undergraduates

1. Supervising Natural Science Tripos Part II Psychology students in **Atypical Psychology** module at the Department of (Experimental) Psychology, University of Cambridge, Oct 2009 till date
2. Supervising medical students in **Neurobiology** subject at Murray Edwards College, University of Cambridge, Jan 2011 till date
3. Supervising medical students in **Experimental Psychology** option at Girton College, University of Cambridge, May 2011 till date
4. Supervising Natural Science Tripos Part II Psychology students at the Department of (Experimental) Psychology, University of Cambridge, for **Part II Research Project “Mental Wellbeing and Social Cognition in Autism Spectrum Conditions”** during Oct 2009 – May 2010; and **“Sex differences in empathy, systemizing and autistic traits in autism”** during Feb 2013 – May 2013.
5. Supervising rotating interns and 6th year medical students in **Psychiatry rotation** at the National Taiwan University Hospital, July 2005 – June 2008

Co-advisor for PhD students

1. Amber N. V. Ruigrok, University of Cambridge, “Structural sex differences in the brain, foetal sex hormones, and sex chromosomes”, 2010 till date
2. Dorothea Floris, University of Cambridge, “Atypical cerebral lateralization in autism”, 2012 till date

PROFESSIONAL SERVICE & PUBLIC ENGAGEMENT

1. Co-facilitator (instructor), the British Psychological Society Learning Centre approved training program **“Assessment and Diagnosis of Asperger Syndrome in Adults – An Integrative Clinical Approach”**, March 2012 till date
2. Volunteer lecturer, Mental Health Foundation (Taiwan), April 2006 till date
3. School consultant psychiatrist, Taipei Municipal Chien-Kuo Senior High School, September 2005 – June 2008

HONORS AND AWARDS

1. **Junior Research Fellowship**, Wolfson College, University of Cambridge, 2012 till date
2. **Donald J. Cohen Fellowship**, The International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP) 20th World Congress, 2012
3. **Student Award** (twice), the 8th and 9th Annual International Meeting For Autism Research (IMFAR), 2009 and 2010
4. **Second Prize** poster, Graduates' Research Symposium of the Clinical School (section: psychiatry), University of Cambridge, 2009
5. **Cambridge Overseas Trust Scholar (Honor.)**
6. **Government Scholarship, Ministry of Education, Taiwan**, for doctoral study in the United Kingdom, 2008 - 2011
7. **"The Distinguished Poster Award"** in the 45th Annual Meeting of the Taiwanese Society of Psychiatry, 2006 [Title: "Gender difference in prevalence and psychiatric comorbid patterns of tic symptoms among young adults"]
8. **"The Best Resident Award"** of the year 2005-2006 from the National Taiwan University Hospital
9. **"Certification of Presidential Award"** (*academic performance ranked top 5% in the department/school*) from the National Taiwan University, 8 times during 1995-2001

RESEARCH & CLINICAL INTERESTS

- Child/adolescent psychiatry and psychology, developmental psychopathology, risk and resilience, especially on:
 1. Typical and atypical life-span social-affective development
 2. Autism spectrum conditions
 3. Anxiety disorders (particularly social anxiety disorder)
 4. Adolescent depression
 5. Addiction
 6. Early psychosis
- Social cognitive neuroscience (particularly about self, empathy, mentalizing and perspective-taking, metacognition, stereotype and prejudice)
- The interface among psychology, psychiatry, neurobiology, cognitive neuroscience, and psychodynamics
- Psychiatric nosology
- Complex science and network science
- Life-span development of sex, gender, sexual orientation, sexual identity, and sex/gender-similarities and differences

RESEARCH TOOLS

Clinical and Behavioral

1. Structured Clinical Interview for DSM-IV (SCID)
2. The Mini-International Neuropsychiatric Interview (MINI)
3. Schedule for Affective Disorders and Schizophrenia (K-SADS)
4. Autism Diagnostic Observation Schedule (ADOS)
5. Autism Diagnostic Interview-Revised (ADI-R)
6. Adult Asperger Assessment (AAA)
7. Developmental, Dimensional and Diagnostic Interview (3Di)

Neuroimaging and Signal Processing

1. Structural magnetic resonance imaging (MRI)
2. Resting-state functional MRI: time series analysis using complexity measures, functional correlation analyses, graph-theoretical approach
3. Diffusion MRI and tractography
4. Task fMRI

Cognitive

1. General intellectual assessment
2. Social cognition tasks (particularly on empathy, mentalizing and perspective-taking)
3. Implicit association test

RESEARCH GRANT (co-investigator):

1. *"Brain differences between high-functioning autism (HFA) and Asperger Syndrome (AS)"*, The Waterloo Foundation, Feb 2011 ~ Oct 2012.
2. *"From immediate-release MPH to OROS MPH: The impact upon family of children and adolescents with ADHD"*, National Taiwan University Hospital, March 2008 ~ July 2008.
3. *"Neuropsychological Functioning, Symptomatology, and Social Adjustment among Children with Tourette's Disorder, Attention-Deficit/Hyperactivity Disorder, and Comorbid Conditions"*, National Taiwan University Hospital, Jan 2007 ~ Dec 2007. (NTUH96- S558)

PEER REVIEW

- Ad-hoc referee for *Archives of General Psychiatry* (now *JAMA Psychiatry*), *Autism: International Journal of Research and Practice*, *Behavior Research Methods*, *Biological Psychiatry*, *Brain Structure & Function*, *Cerebral Cortex*, *Frontiers in Evolutionary Psychology and Neuroscience*, *Frontiers in Psychiatry*, *Journal of Autism and Developmental Disorders*, *Journal of Neural Transmission*, *Journal of Neurodevelopmental Disorders*, *Molecular Autism*, *Molecular Psychiatry*, *Music Perception*, *NeuroImage*, *Neuropsychologia*,

Neuroscience & Biobehavioral Reviews, PLoS ONE, PsyCH, Psychological Medicine

- Grant referee for *Economic and Social Research Council (ESRC), UK*
- Editorial Board member for *OA Autism*

PUBLICATIONS

Review and Perspective (*: correspondence; in reverse chronological order)

1. **Meng-Chuan Lai***, Michael V. Lombardo, Simon Baron-Cohen. (2013). Autism. *The Lancet*. doi:10.1016/S0140-6736(13)61539-1
2. **Meng-Chuan Lai***, Michael V. Lombardo, Bhismadev Chakrabarti, Simon Baron-Cohen. (2013). Subgrouping the autism 'spectrum': Reflections on DSM-5. *PLoS Biology* 11(4):e1001544.
3. **Meng-Chuan Lai***, Susan Shur-Fen Gau. (2010). The autism spectrum (in Chinese). *Formosan Journal of Medicine* 14(4): 401-411.
4. **Meng-Chuan Lai**, Susan Shur-Fen Gau, Yen-Nan Chiu. (2009). Non-heterosexuality: Contemporary psychiatric perspectives. *Taiwanese Journal of Psychiatry* 23(2):104-119.
5. **Meng-Chuan Lai***, Pin-Chih Chi. (2009). "No more doctors": A brief introduction to contemporary psychiatric perspectives on sexual orientation (in Chinese). *Guidance Quarterly* 45(4):58-70.

Original Research (*: correspondence; in reverse chronological order)

1. **Meng-Chuan Lai***, Michael V. Lombardo, John Suckling, Amber N. V. Ruigrok, Bhismadev Chakrabarti, Christine Ecker, Sean C. L. Deoni, Michael C. Craig, Declan G. M. Murphy, Edward T. Bullmore, MRC AIMS Consortium, Simon Baron-Cohen. (2013). Biological sex affects the neurobiology of autism. *Brain* 136(9):2799-2815.
2. Valentino A. Pironti, **Meng-Chuan Lai**, Ulrich Müller, Chris M. Dodds, John Suckling, Edward T. Bullmore, Barbara J. Sahakian. (2013). Neuroanatomical abnormalities and cognitive impairments are shared by adults with Attention-Deficit/Hyperactivity Disorder and their unaffected first degree relatives. *Biological Psychiatry*. doi:10.1016/j.biopsych.2013.09.025
3. Christine Ecker, Lisa Ronan, Yue Feng, Cedric Ginestet, Eileen M. Daly, Clodagh M. Murphy, Michael J. Brammer, Paul C. Fletcher, Edward T. Bullmore, John Suckling, Simon Baron-Cohen, **MRC AIMS Consortium**#, Declan G. M. Murphy. (2013). The intrinsic grey-matter connectivity of the brain in adults with autism. *Proceedings of the National Academy of Sciences of the United States of America* 110(32):13222-13227. #Authorship via MRC AIMS Consortium.
4. Christine Ecker, Cedric Ginestet, Yue Feng, Patrick Johnston, Michael V. Lombardo, **Meng-Chuan Lai**, John Suckling, Lena Palaniyappan, Eileen M. Daly, Clodagh M.

- Murphy, Steven C. Williams, Edward T. Bullmore, Simon Baron-Cohen, Michael J. Brammer, Declan G. M. Murphy, MRC AIMS Consortium. (2013). Brain surface anatomy in adults with autism: The relationship between surface area, cortical thickness and autistic symptoms. *JAMA Psychiatry* 70(1):59-70.
5. João Ricardo Sato, Marcelo Queiroz Hoexter, Pedro Paulo de Magalhães Oliveira Jr., Michael John Brammer, **MRC AIMS Consortium**#, Declan G. M. Murphy, Christine Ecker. (2013). Inter-regional cortical thickness correlations are associated with autistic symptoms: A machine-learning approach. *Journal of Psychiatric Research* 47(4):453-9. #Authorship via MRC AIMS Consortium.
 6. **Meng-Chuan Lai***, Michael V. Lombardo, Amber N. V. Ruigrok, Sally J. Wheelwright, Bhismadev Chakrabarti, Bonnie Auyeung, Carrie Allison, MRC AIMS Consortium, Simon Baron-Cohen. (2012). Cognition in males and females with autism: Similarities and differences. *PLoS ONE* 7(10):e47198.
 7. **Meng-Chuan Lai***, Michael V. Lombardo, Bhismadev Chakrabarti, Christine Ecker, Susan A. Sadek, Sally J. Wheelwright, Declan G. M. Murphy, John Suckling, Edward T. Bullmore, MRC AIMS Consortium, Simon Baron-Cohen. (2012). Individual differences in brain structure underpin empathizing-systemizing cognitive styles in male adults. *NeuroImage* 61(4):1347-1354.
 8. Yu-Ju Lin, **Meng-Chuan Lai**, Susan Shur-Fen Gau. (2012). Youths with ADHD with and without tic disorders: Comorbid psychopathology, executive function and social adjustment. *Research in Developmental Disabilities* 33(3):951-963.
 9. Michael V. Lombardo, Bhismadev Chakrabarti, **Meng-Chuan Lai**, MRC AIMS Consortium, Simon Baron-Cohen. (2012). Self-referential and social cognition in a case of autism and agenesis of the corpus callosum. *Molecular Autism* 3:14.
 10. Michael V. Lombardo, Emma Ashwin, Bonnie Auyeung, Bhismadev Chakrabarti, **Meng-Chuan Lai**, Kevin Taylor, Gerald Hackett, Edward T. Bullmore, Simon Baron-Cohen. (2012). Fetal programming effects of testosterone on the reward system and behavioral approach tendencies in humans. *Biological Psychiatry* 72(10):839-847.
 11. Felix D. Beacher, Ludovico Minati, Simon Baron-Cohen, Michael V. Lombardo, **Meng-Chuan Lai**, Marcus A. Gray, Neil A. Harrison, Hugo D. Critchley. (2012). Autism attenuates sex differences in brain structure: A combined voxel-based morphometry and diffusion-tensor imaging study. *American Journal of Neuroradiology* 33(1):83-89.
 12. Felix D. Beacher, Eugenia Radulescu, Ludovico Minati, Simon Baron-Cohen, Michael V. Lombardo, **Meng-Chuan Lai**, Anne Walker, Dawn Howard, Marcus A. Gray, Neil A. Harrison, Hugo D. Critchley. (2012). Sex differences and autism: Brain function during verbal fluency and mental rotation. *PLoS ONE* 7(6):e38355.
 13. Christine Ecker, John Suckling, Sean Deoni, Michael V. Lombardo, Edward T. Bullmore, Simon Baron-Cohen, Marco Catani, Peter Jezzard, Anna Barnes, Anthony

- Bailey, Steven C. Williams, **MRC AIMS Consortium**[#], Declan G. M. Murphy. (2012). Brain anatomy and its relationship to behavior in adults with autism spectrum disorder: A multicenter magnetic resonance imaging study. *Archives of General Psychiatry* 69(2):195-209. [#]Authorship via MRC AIMS Consortium.
14. Frederick Sundram, Quinton Deeley, Sagari Sarkar, Eileen Daly, Richard Latham, Michael Craig, Malgorzata Raczek, Tom Fahy, Marco Picchioni, **MRC AIMS Consortium**[#], Gareth J. Barker, Declan G. M. Murphy. (2012). White matter microstructural abnormalities in the frontal lobe of adults with antisocial personality disorder. *Cortex* 48:216-229. [#]Authorship via MRC AIMS Consortium.
 15. **Meng-Chuan Lai**^{*}, Michael V. Lombardo, Greg Pasco, Amber N. V. Ruigrok, Sally J. Wheelwright, Susan A. Sadek, Bhismadev Chakrabarti, MRC AIMS Consortium, Simon Baron-Cohen. (2011). A behavioral comparison of male and female adults with high functioning autism spectrum conditions. *PLoS ONE* 6(6):e20835.
 16. Chen-Chung Liu, **Meng-Chuan Lai**, Chih-Min Liu, Yen-Nan Chiu, Ming-Hsien Hsieh, Tzung-Jeng Hwang, Yi-Ling Chien, Wei-J. Chen, Mau-Sun Hua, Ping-Chuan Hsiung, Ya-Chuan Huang, Hai-Gwo Hwu. (2011). Follow-up of subjects with suspected pre-psychotic state in Taiwan. *Schizophrenia Research* 126(1):65-70.
 17. Susan Shur-Fen Gau, Chi-Mei Lee, **Meng-Chuan Lai**, Yen-Nan Chiu, Ya-Fen Huang, Jen-Der Kao, Yu-Yu Wu. (2011). Psychometric properties of the Chinese version of the Social Communication Questionnaire. *Research in Autism Spectrum Disorders* 5:809-818.
 18. Yu-Chun Lo, Wei-Tsuen Soong, Susan Shur-Fen Gau, Yu-Yu Wu, **Meng-Chuan Lai**, Fang-Cheng Yeh, Wen-Yang Chiang, Li-Wei Kuo, Fu-Shan Jaw, Wen-Yih Isaac Tseng. (2011). The loss of asymmetry and reduced interhemispheric connectivity in adolescents with autism: A study using diffusion spectrum imaging tractography. *Psychiatry Research - Neuroimaging* 192(1):60-66.
 19. Michael V. Lombardo, Bhismadev Chakrabarti, Edward T. Bullmore, **MRC AIMS Consortium**[#], Simon Baron-Cohen. (2011). Specialization of right temporo-parietal junction for mentalizing and its relation to social impairments in autism. *NeuroImage* 56(3):1832-1838. [#]Authorship via MRC AIMS Consortium.
 20. **Meng-Chuan Lai**^{*}, Michael V. Lombardo, Bhismadev Chakrabarti, Susan A. Sadek, Greg Pasco, Sally J. Wheelwright, Edward T. Bullmore, Simon Baron-Cohen, MRC AIMS Consortium, John Suckling. (2010). A shift to randomness of brain oscillations in people with autism. *Biological Psychiatry* 68(12):1092-1099.
 21. **Meng-Chuan Lai**, Yen-Nan Chiu, Kenneth D. Gadow, Susan Shur-Fen Gau, Hai-Gwo Hwu. (2010). Correlates of gender dysphoria in Taiwanese university students. *Archives of Sexual Behavior* 39(6):1415-1428.
 22. Chen-Chung Liu, Yi-Han Sheu, Szu-Ying Wu, **Meng-Chuan Lai**, Hai-Gwo Hwu. (2010). Rapid response to antipsychotic treatment on psychotic prodrome:

- implications from a case series. *Psychiatry and Clinical Neurosciences* 64(2):202-206.
23. Chen-Chung Liu, Hai-Gwo Hwu, Yen-Nan Chiu, **Meng-Chuan Lai**, Huai-Hsuan Tseng. (2010). Creating a platform to bridge service and research for early psychosis. *Journal of the Formosan Medical Association* 109(7):543-549.
 24. Chen-Chung Liu, Li-Ren Chang, Huai-Hsuan Tseng, **Meng-Chuan Lai**, Hai-Gwo Hwu. (2010). Differential propensity in recognition of pre-psychotic phenomena among psychiatrists, clinical psychologists, and school counselors. *Early Intervention in Psychiatry* 4(4):275-282.
 25. Susan Shur-Fen Gau, **Meng-Chuan Lai**, Yen-Nan Chiu, Chun-Te Liu, Ming-Bin Lee, Hai-Gwo Hwu. (2009). Individual and family correlates for cigarette smoking among Taiwanese college students. *Comprehensive Psychiatry* 50:276-285.
 26. Chen-Chung Liu, Yu-Chan Chiu, Yen-Nan Chiu, **Meng-Chuan Lai**, Hai-Gwo Hwu. (2009). Mental health literacy: Impact of newspaper report on increasing recognition of psychotic prodrome. *Taiwanese Journal of Psychiatry* 23(4):320-330.

Conference Papers

1. **Lai MC**, Lombardo MV, Ruigrok ANV, Suckling J, Chakrabarti B, Auyeung B, Ecker C, Craig MC, Murphy DGM, Bullmore ET, MRC AIMS Consortium, and Baron-Cohen S. (2014). Measuring "camouflage" in males and females with autism: clinical, cognitive, and neuroanatomical associations. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
2. Bethlehem RAI, **Lai MC**, Lombardo MV, Ruigrok ANV, Auyeung B, Suckling J, Bullmore ET, MRC AIMS Consortium, Baron-Cohen S, and Chakrabarti B. (2014). Sex-modulated atypical resting-state functional connectivity in autism: an independent component analysis. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
3. Floris DL, **Lai MC**, Suckling J, Lombardo MV, Ecker C, Chakrabarti B, Wheelwright SJ, Auyeung B, Allison C, Ruigrok ANV, Bullmore ET, MRC AIMS Consortium, Murphy DGM, and Baron-Cohen S. (2014). Atypical cerebral lateralization of language and motor-related regions in high-functioning male adults with autism. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
4. Baron-Cohen S, Cassidy SA, Auyeung B, Allison C, Achoukhi M, Robertson S, and **Lai MC**. (2014). Attenuation but persistence of normative sex differences in empathizing, systemizing, and autistic traits in 800 high-functioning adults with autism: a big-data test of the 'extreme male brain' theory. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
5. Holt R, Chura LR, **Lai MC**, Suckling J, von dem Hagen E, Calder A, Bullmore ET, Baron-Cohen S, and Spencer MD. (2014). 'Reading the Mind in the Eyes': phenotypic

- and endophenotypic associations in males and females with autism. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
6. Ni HC, Lin HY, **Lai MC**, Tseng WYI, and Gau SSF. (2014). Regional brain volume differences between males with and without autism are highly age-dependent. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
 7. Lin HY, Chien HY, **Lai MC**, Tseng WYI, and Gau SSF. (2014). Hyperconnectivity of the right posterior temporo-parietal junction predicts social deficits in high-functioning boys with autism. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
 8. Warrington RH, Berntsen H, Chuthapisith J, De La Marche W, Lai K, **Lai MC**, Mandy W, Merelli S, Mo F, Puura K, Rattazzi A, Skuse DH, and Slappendel G. (2014). A computerised approach to interviewing for ASD: evidence for 3di's value in translation, and international compatibility with DSM-5 criteria. In: The 13th Annual International Meeting for Autism Research (IMFAR), (submitted), Atlanta, GA, USA.
 9. **Lai MC**, Ruigrok ANV, Lombardo MV, Baron-Cohen S. (2013). Sleep and eating difficulties in female adults with autism. In: 14th International Congress of the International Federation of Psychiatric Epidemiology, (poster session), Leipzig, Germany.
 10. **Lai MC**, Lombardo MV, Chakrabarti B, Ruigrok ANV, Bullmore ET, Baron-Cohen S, MRC AIMS Consortium, Suckling J. (2013). Sex-differential fractal complexity of resting-state brain oscillations in autism. In: The 12th Annual International Meeting for Autism Research (IMFAR), (poster session), San Sebastián, Spain; The 16th Annual Meeting of the Taiwanese Society of Child and Adolescent Psychiatry, (oral presentation), Taipei, Taiwan.
 11. **Lai MC**, Lombardo MV, Suckling J, Ruigrok ANV, Chakrabarti B, Ecker C, Deoni SCL, Craig MC, Murphy DGM, Bullmore ET, MRC AIMS Consortium, Baron-Cohen S. Biological sex affects the neurobiology of autism. In: The 2013 Annual Meeting of The Organization for the Study of Sex Differences (OSSD), (poster session), Weehawken, USA.
 12. Lombardo MV, **Lai MC**, Chakrabarti B, Suckling J, MRC AIMS Consortium, Baron-Cohen S, Bullmore ET. (2013). Diagnostic classification for autism in male adults based on resting state fMRI fractal connectivity. In: The 12th Annual International Meeting for Autism Research (IMFAR), (poster session), San Sebastián, Spain.
 13. Huang HY, **Lai MC**, Gau SSF. (2013). An easy target: Autistic-like traits and bullying victimization. In: 60th Annual Meeting of the American Academy of Child and Adolescent Psychiatry, (poster session), Orlando, FL, USA.

14. Ruigrok ANV, Chapman E, **Lai MC**, Lombardo MV, Auyeung B, Suckling J, Taylor K, Hackett G, Bullmore ET, and Baron-Cohen S. (2013). Fetal testosterone is associated with sex differences in white matter volume in children. In: The 43th Annual Meeting of the Society for Neuroscience (SfN), (poster session), San Diego, USA.
15. **Lai MC**, Suckling J. (2012). Fractals in the brain: Neurophysiological characterization of psychiatric conditions. In: The 51st Annual Meeting of the Taiwanese Society of Psychiatry, (oral presentation), Tainan, Taiwan.
16. **Lai MC**, Lombardo MV, Suckling J, Ruigrok ANV, Chakrabarti B, Bullmore ET, MRC AIMS Consortium, Baron-Cohen S. (2012). Atypical regional brain volume in women but not men with autism overlaps with sexually dimorphic regions: Neuroanatomical evidence for females as a sub-group on the autism spectrum. In: The 11th Annual International Meeting for Autism Research (IMFAR), (oral presentation), Toronto, Canada; The 18th Annual Meeting of the Organization for Human Brain Mapping, (poster session), Beijing, China; The 15th Annual Meeting of the Taiwanese Society of Child and Adolescent Psychiatry, (oral presentation), Taipei, Taiwan; and The 20th World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP), (oral presentation), Paris, France.
17. Lombardo MV, **Lai MC**, Chakrabarti B, Ruigrok ANV, Bullmore ET, Suckling J, MRC AIMS Consortium, Baron-Cohen S. (2012). Spared brain function during mentalizing and self-representation in females with autism spectrum conditions. In: The 11th Annual International Meeting for Autism Research (IMFAR), (poster session), Toronto, Canada.
18. Ruigrok ANV, Lombardo MV, **Lai MC**, Dell'Acqua F, Catani M, Suckling J, Chakrabarti B, Craig M, Murphy DGM, MRC AIMS Consortium, Baron-Cohen S. (2012). Sex and diagnosis effects on microstructural white matter properties in individuals with autism spectrum conditions. In: The 11th Annual International Meeting for Autism Research (IMFAR), (oral presentation), Toronto, Canada.
19. Ruigrok ANV, Salimi-Khorshidi R, **Lai MC**, Lombardo MV, Baron-Cohen S, Suckling J. Volumetric sexual dimorphism in the human brain: a coordinate-based meta-analysis. (2012). In: The 42th Annual Meeting of the Society for Neuroscience (SfN), (poster session), New Orleans, USA.
20. **Lai MC**, Lombardo MV, Ecker C, Suckling J, Chakrabarti B, Bullmore ET, Murphy DGM, the MRC AIMS Consortium, Baron-Cohen S. (2011). Differences in brain anatomy in male adults with High-Functioning Autism versus Asperger's Syndrome. In: The 10th Annual International Meeting for Autism Research (IMFAR), (oral presentation), San Diego, USA.
21. **Lai MC**, Lombardo MV, Pasco G, Ruigrok ANV, Wheelwright SJ, Sadek SA, Chakrabarti B, Baron-Cohen S. (2011). Sex differences in behavior in adults with high functioning autism spectrum conditions. In: 13th International Congress of the

- International Federation of Psychiatric Epidemiology, (oral presentation), Kaohsiung, Taiwan; & The 10th Annual International Meeting for Autism Research (IMFAR), (oral presentation), San Diego, USA.
22. **Lai MC**, Lombardo MV, Chakrabarti B, Ruigrok ANV, Bullmore ET, Baron-Cohen S, Suckling J. (2011). Differential complexity of resting brain oscillation between sexes and in autism spectrum conditions. In: MRI and Brain Biomarkers: Autism and Beyond (The British Institute of Radiology event), (oral presentation), London, UK.
 23. Lombardo MV, **Lai MC**, Ruigrok ANV, van de Ven R, Chakrabarti B, Bullmore ET, Suckling J, MRC AIMS Consortium, Baron-Cohen S. (2011). Individual differences in trait empathy and sex influence neural response to mentalizing in the general population. In: Cognitive Neuroscience Society 18th Annual Meeting, (poster session), San Francisco, USA.
 24. Ecker C, Marquand A, **Lai MC**, Lombardo MV, Johnston P, Chakrabarti B, Daly EM, Murphy CM, MRC AIMS Consortium, Baron-Cohen S, Murphy DGM. (2011). Dissociating individuals with Asperger syndrome from high functioning autism using a probabilistic pattern recognition approach. In: The 10th Annual International Meeting for Autism Research (IMFAR), (poster session), San Diego, USA.
 25. Ruigrok ANV, Lombardo MV, **Lai MC**, Sadek SA, Dell'Acqua F, Pasco G, Catani M, Suckling J, Murphy DGM, MRC AIMS Consortium, Baron-Cohen S. (2011). Microstructural white matter properties in autism spectrum conditions: Lack of correlations with empathy. In: The 10th Annual International Meeting for Autism Research (IMFAR), (poster session), San Diego, USA.
 26. **Lai MC**, Chakrabarti B, Bassett D, Meunier D, Lombardo MV, Fornito A, Suckling J, Baron-Cohen S, Bullmore ET. (2010). Complex network properties of intrinsic brain functional organization in autism spectrum conditions. In: The 9th Annual International Meeting for Autism Research (IMFAR), (oral presentation), Philadelphia, Pennsylvania, USA; & The Third Oxford-Cambridge Taiwan Scientific Symposium, (oral presentation), Cambridge, UK; & The IX International Congress Autism-Europe, (oral presentation), Catania, Sicily, Italy.
 27. Wu YY, Gau SSF, Lee CM, Chiu YN, **Lai MC**. (2010). Psychometric properties of the Chinese version of the Social Communication Questionnaire. In: 57th Annual Meeting of the American Academy of Child and Adolescent Psychiatry, (poster session), New York, USA.
 28. **Lai MC**, Suckling J, Lombardo MV, Chakrabarti B, Bullmore ET, Sadek SA, Pasco G, Wheelwright SJ, Baron-Cohen S, MRC AIMS Consortium. (2009). Spontaneous BOLD signal fluctuation in resting state functional MRI demonstrates difference in Hurst exponent distribution in adults with and without autism spectrum conditions. In: The 8th Annual International Meeting for Autism Research (IMFAR), (poster session), Chicago, Illinois, USA.

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