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Postdoctoral Fellow
Maryland Psychiatric Research Centre (MPRC)
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Contact Information

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Education

2000 H.N.C., Computing, Middlesex University, UK
2004 B.Sc. (with Honors), Biological Sciences, University of Reading, UK
2007 Adv.Cert., Psychology, Birkbeck, University of London, UK
2008 M.Sc. (with Distinction), Clinical and Cognitive Neuroscience, Goldsmiths, University of London, UK
2013 Ph.D. (Magna Cum Laude), Neuroscience, Ruhr University Bochum, Germany,
Thesis Advisor - Martin Brüne. Thesis title - "Social cognition and schizophrenia"

Post Graduate Education and Training

2011 Research Fellowship, Department of Experimental Clinical and Health Psychology, Ghent University, Belgium. Mentors - Roeljan J. Wiersema & Gilles Pourtois
2012 Research Fellowship, Department of Psychiatry, Celal Bayar University Hospital, Manisa, Turkey. Mentor - Aysen Esen-Danaci
2013 Research Fellowship, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Netherlands. Mentor - Harold Bekkering

Employment History

Academic Appointments

2007-2008 Research Assistant, Blackheath Brain Injury Rehabilitation Unit, Huntercombe Group, London, UK. Mentor - Gianna Cocchini
2007-2008 Honorary Research Associate, Institute of Psychiatry, Kings College London, UK. Mentor - Anthony S. David
2008-2010 Research Assistant, School of Psychology, University of Hertfordshire, UK. Mentors - D. John Done, Anthony J. Marcel
2013-present Honorary Research Fellow, LWL University Hospital, Ruhr University Bochum, Germany
2013-present Postdoctoral Fellow, MPRC, University of Maryland School of Medicine, Baltimore, MD, USA

Professional Society Membership

- 2011-present General Member, Schizophrenia International Research Society
 2013-present General Member, The Social and Affective Neuroscience Society

Grants, Honors and Awards

- 2013-2016 Postdoctoral Fellowship, University of Maryland School of Medicine
 2012 Scientific and Technological Research Council of Turkey (TUBITAK) - Research Fellowship for Foreign Citizens
 2011 International Brain Research Organisation (IBRO) - CEERC-WERC In-Europe Travel Fellowship
 2011 Ruhr University Bochum, Research School Graduate Funding
 2010-2013 International Graduate School of Neuroscience (IGSN), Ruhr University Bochum - 3-year PhD Scholarship

Clinical Activities

- 2007-2008 Blackheath Brain Injury Rehabilitation Unit, Huntercombe Group, London, UK
 Assistant Psychologist
 Neuropsychological assessment and cognitive remediation - 20% FTE

Administrative Service

- 2013-Present Associate Editor, *The Journal of Neurobehavioral Sciences*
 2013-Present Ad Hoc Grant Reviewer, *Czech Science Foundation*
 2013-Present Ad Hoc Reviewer, *Brain Imaging and Behaviour, Frontiers in Human Neuroscience, Journal of Neurology & Neurophysiology, Psychological Reports, Schizophrenia Research.*

Student Teaching Service

- 2010-2011 Teaching assistance, Statistics for Social Sciences in Undergraduate Psychology Bridging Course, University of Hertfordshire, UK
 60 students over 2years
 2010 Lecturer, Topics in Psychopathology, B.Sc. Psychology Course, University of Hertfordshire, UK
 Cognition in schizophrenia; Cognitive behavioural therapy for schizophrenia
 90 students, 2 lectures, 6 hours in total
 2009-2010 Mentor for student group research project, University of Hertfordshire, UK
 12, 3rd-year B.Sc. students, 22 contact hours/year
 2009-2010 Mentor for student research project, University of Hertfordshire, UK
 2, M.Sc. students, 20-30 contact hours/year each
 2011 Mentor for student research project, Ruhr University Bochum, Germany
 1, M.Sc. student, 20 contact hours/year
 2012 Mentor for student research project, Ruhr University Bochum, Germany
 2, Medical students, 20-40 contact hours/year each

Publications

Peer-reviewed journal articles

1. **Brown, E.C.**, Tas, C., Brüne, M. (2011). Potential therapeutic avenues to tackle social cognition problems in schizophrenia. *Expert Review of Neurotherapeutics* 12 (1), 71-81.
2. **Brown, E.C.**, Brüne, M. (2012). The role of predictive coding in social neuroscience. *Frontiers in Human Neuroscience* 6 (147).
3. Tas, C., **Brown, E.C.**, Esen-Danaci, A., Lysaker, P.H., Brüne, M. (2012). Intrinsic motivation and metacognition as predictors of learning potential in patients with remitted schizophrenia. *Journal of Psychiatric Research* 46 (8), 1086-1092.
4. **Brown, E.C.**, Brüne, M. (2012). Evolution of social predictive brains? *Frontiers in Psychology* 3, (414).
5. Tas, C., **Brown, E.C.**, Cubukcuoglu, Z., Aydemir, O., Esen-Danaci, A., Brüne, M. (2013). Towards an integrative approach to understanding quality of life in schizophrenia: The role of neurocognition, social cognition and psychopathology. *Comprehensive Psychiatry* 54 (3), 262-268.
6. **Brown, E.C.**, Wiersema, J.R., Pourtois, G., Brüne, M. (2013). Modulation of motor cortex activity when observing rewarding and punishing actions. *Neuropsychologia* 51 (1), 52-58.
7. Brüne, M., Tas, C., **Brown, E.C.**, Armgart, C., Dimaggio, G., Lysaker, P. (2013). Metakognitive und sozial-kognitive Defizite bei Schizophrenien. Funktionelle Bedeutung und Behandlungsstrategien. *Zeitschrift für Psychiatrie, Psychologie und Psychotherapie* 61(4), 231-247.
8. **Brown, E.C.**, Tas, C., Can, H., Esen-Danaci, A., Brüne, M. (2013). A closer look at the relationship between the subdomains of social functioning, social cognition and symptomatology in clinically stable patients with schizophrenia. *Comprehensive Psychiatry* 55(1), 25-32.
9. Rüter, N.N., **Brown, E.C.**, Klepp, A., Bellebaum, C. (2014). Observed manipulation of novel tools leads to mu rhythm suppression over sensory-motor cortices. *Behavioural Brain Research* 261, 328-335.
10. Tas, C., Erensoy, H., Ibadi, Y., **Brown, E.C.**, Tarhan, N. (2014). QEEG related changes following treatment of anxiety disorders: Case series. *The Journal of Neurobehavioral Sciences* 1(1), 9-13.
11. **Brown, E.C.**, Brüne, M. (2014). Reward in the mirror neuron system, social context and the implications on psychopathology. *Behavioral and Brain Sciences* (in press).
12. Tas, C., **Brown, E.C.**, Onur, E., Aydin, O., Brüne, M. (2014). The effects of endogenous oxytocin levels on emotion recognition in bipolar disorder (under review).
13. **Brown, E.C.**, Tas, C., Esen-Danaci, A., Roelofs, K., Brüne, M. (2014). Social approach and avoidance behaviour for negative emotions is modulated by endogenous oxytocin and paranoia in schizophrenia (under review).
14. Gonzalez-Liencre, C., Tas, C., **Brown, E.C.**, Erdin, S., Onur, E., Cubukcuoglu, Z., Esen-Danaci, A., Brüne, M. (2014) Oxidative stress in schizophrenia: The effects on social cognition and neurocognition (under review).
15. Hoffmann, K., **Brown, E.C.**, Illes, F., Haussleiter, I.S., Jendreschak, J., Diehl, G., Schaub, M., Emons, B., Armgart, C., Schramm, A., Juckel, G. (2014). Preventing involuntary admissions: Special needs for distinct patient groups (under review).
16. Tas, C., **Brown, E.C.**, Aydemir, O., Brüne, M., Lysaker, P.H. (2014). Metacognition in psychosis: Comparison of schizophrenia with bipolar disorder (under review).

Non-peer reviewed journal articles

1. Tas, C., **Brown, E.C.**, Enzi, B., Brüne, M. (2013). Social cognitive deficits in schizophrenia: Are they acquired or developmental? *IGSN Report*.

Book Chapters

1. **Brown, E.C.**, Tas, C., Gonzalez-Liencre, C., Brüne, M. (2013) Neurological underpinnings of social cognition and metacognition in schizophrenia spectrum disorders. In P. Lysaker, G. Dimaggio and M. Brüne, *Social cognition and metacognition in schizophrenia: Psychopathology and treatment approaches*. San Diego, CA, USA: Academic Press / Elsevier (*in press*)
2. Tas, C., **Brown, E.C.**, Gonzalez-Liencre, C., Brüne, M. (2013) Experimental usage of oxytocin to combat deficits in social cognition in schizophrenia. In P. Lysaker, G. Dimaggio and M. Brüne, *Social cognition and metacognition in schizophrenia: Psychopathology and treatment approaches*. San Diego, CA, USA: Academic Press / Elsevier (*in press*)

Invited Speeches

1. **Brown, E.C.**, Social cognition in movement and the relevance to schizophrenia. Yasar University, Izmir, Turkey, 2012
2. **Brown, E.C.**, Social approach and avoidance behaviour in schizophrenia. The Psychosis Studies and Intervention Team, Department of Psychiatry, The University of Hong Kong, Hong Kong, 2012
3. **Brown, E.C.**, The neurobiology of social approach and avoidance behaviour in schizophrenia. University Clinic and Polyclinic for Psychiatry and Psychotherapy, Münster, Germany, 2012
4. **Brown, E.C.**, Social cognition in schizophrenia. Klinik für Kinder- und Jugendpsychiatrie, Psychotherapie und Psychosomatik im LWL-Psychiatrieverbund Westfalen, Hamm, Germany, 2012
5. **Brown, E.C.**, Reward-related modulation of motor cortex during action observation. Action and Neurocognition Group, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, 2013
6. **Brown, E.C.**, Reward-related modulation of motor cortex during action observation in schizophrenia. Maryland Psychiatric Research Centre, University of Maryland Baltimore, USA, 2013
7. **Brown, E.C.**, Living with schizophrenia. Christ's College Finchley, London, UK, 2013
8. **Brown, E.C.**, Observing rewarding actions and the relevance to schizophrenia. Laboratory of Neural Computation and Cognition, Brown University, Providence RI, USA, 2014

Abstracts and/or Proceedings

1. **Brown, E.C.**, Brüne, M. (2011). Social cognition and violence in schizophrenia: Is there a link? *3rd European Conference on Schizophrenia Research (ECSR): Facts and Visions, Berlin, Germany (Published in European Archives of Psychiatry and Clinical Neurosciences 261 (S1), S39 (TALK))*
2. **Brown, E.C.**, Brüne, M. (2011). Theory of mind in at-risk stages of schizophrenia. *3rd European Conference on Schizophrenia Research (ECSR): Facts and Visions, Berlin, Germany (Published in European Archives of Psychiatry and Clinical Neurosciences 261 (S1), S26 (TALK))*
3. Tas C., **Brown E.C.**, Danaci A.E., Lysaker P., Brüne M. (2012). Motivation and metacognition as predictors of occupational functioning in remitted schizophrenia patients. *3rd Schizophrenia International Research Conference, Florence, Italy. (Published in Schizophrenia Research 136 (S1), 180 (doi: 10.1016/S0920-9964(12)70544-3))*
4. **Brown E.C.**, Tas C., Danaci A.E., Brüne M. (2012). How separable are the domains of social cognitive deficits in schizophrenia? *3rd Schizophrenia International Research Conference, Florence, Italy (Published in Schizophrenia Research 136 (S1), 180 (doi: 10.1016/S0920-9964(12)70545-5))*
5. **Brown, E.C.**, Wiersema, J.R., Pourtois, G., Brüne, M. (2012). Catharsis in the motor cortex: Reward and punishment when observing others' actions. *Belgian Brain Congress, Liege, Belgium (Published in Frontiers in Neuroscience. (doi: 10.3389/conf.fnhum.2012.210.00052))*

Proffered Communications – Conference Abstracts

1. **Brown, E.C.**, Cocchini, G. (2009). A study of error awareness and insight in schizophrenia using the Sustained Attention to Response Task (SART). *British Psychological Society (BPS) Annual Conference, Brighton, UK.* (POSTER)
2. **Brown, E.C.**, Cocchini, G. (2010). Perception without awareness: A case study. *International Conference on Parietal Lobe Function, European Science Foundation (ESF) Congress, Amsterdam, Netherlands.* (POSTER)
3. **Brown, E.C.**, Brüne, M. (2011). How 'social' is the mirror neuron system: Insights from the EEG mu rhythm. *Donders Discussions, Nijmegen, Netherlands.* (POSTER)
4. **Brown, E.C.**, Brüne, M. (2011). Mirror neuron activity in schizophrenia. Deutsche Gesellschaft für Psychiatrie, Psychotherapie, und Nervenheilkunde Kongress (DGPPN), Berlin, Germany. (TALK)
5. **Brown, E.C.**, Pourtois, G., Wiersema, J.R., Tas, C., Brüne, M. (2012). Reward-related changes in motor cortex excitability during action observation of others. *8th FENS Forum of Neuroscience, Barcelona, Spain.* (POSTER)
6. Tas C., **Brown E.**, Esen-Danaci A., Brüne M. (2012). The role of plasma oxytocin and cortisol levels and metacognition on social learning and social stress response in schizophrenia patients. *The German Society for Biological Psychiatry Congress (DGBP), Heidelberg, Germany.* (POSTER)
7. **Brown E.C.**, Tas C., Danaci A.E., Brüne M. (2012). Social approach and avoidance in schizophrenia: The relationship with paranoia, social cognition and oxytocin. *The German Society for Biological Psychiatry Congress (DGBP), Heidelberg, Germany.* (POSTER)
8. **Brown, E.C.**, Brüne, M. (2013). Neural evidence for the potential use of rewards in observational learning in schizophrenia? *Neurex Symposium on "Cognitive disorders and remediation in schizophrenia and other mental disorders", Strasbourg, Switzerland.* (TALK)
9. **Brown, E.C.**, Pourtois, G., Wiersema, J.R., Brüne, M. (2013). The influence of reward and punishment in action observation. *UCL Conference on "Implications of Research on the Neuroscience of Affect, Attachment, and Social Cognition", University College London, UK.* (POSTER)