Delia Fuhrmann

MRC Cognition and Brain Sciences Unit, University of Cambridge
15 Chaucer Road, Cambridge, CB2 7EF
telephone: 01223 355 204
email: Delia.Fuhrmann@mrc-cbu.cam.ac.uk

Research & Education

2017-2020	*MRC Cognition and Brain Sciences Unit, University of Cambridge* Postdoctoral Trainee with Dr. Rogier Kievit • Topic: Modelling lifespan development of executive functions
2013-2017	*University College London, Institute for Cognitive Neuroscience* PhD under the supervision of Prof. Sarah-Jayne Blakemore and Dr. Maarten Speekenbrink • Topic: Plasticity and learning in adolescence
2009-2013	*University of St Andrews, School of Psychology and Neuroscience* BSc Honours Psychology (1st class), other subjects studied: Biology and Divinity • Dissertation on chimpanzee social learning with Prof. Andrew Whiten

Awards & Prizes

2018	*Postgraduate Award,* British Neuroscience Association
2017 - 2020	*Research Associate* at Sidney Sussex College, University of Cambridge
2018	*Data Study Group Delegate* at the Alan Turing Institute
2018	*Travel Award* of the Flux Society to attend Flux 2018
2018	*Travel Award* of the Journal of Intelligence to attend Flux 2018
2018	*Poster Prize* at the Cambridge Neuroscience Seminar
2016	*Travel Award* of the Cusanuswerk to attend SfN 2017
2016-2017	*Scholarship Enhancement* from Jacob's Foundation Prize to Sarah-Jayne Blakemore
2015	*Travel Award* Guarantors of Brain to attend Flux 2015
2013-2017	*Statistics Demonstratorship* at the Division of Psychology and Language Sciences, UCL
2009-2017	*Cusanuswerk Fellowship* of the Federal Republic of Germany
2014	*Cecily De Monchaux Research Prize* for the best performance in the first year of studies and research towards the PhD at the Division of Psychology and Language Sciences, UCL
2013	*Malcolm Jeeves Award* for best student in Psychology BSc at the University of St Andrews
2010	*Barber Price* for Divinity at the University of St Andrews
2009-2013	*The Deans' List Award* of the University of St Andrews for academic excellence

Teaching Experience

2017-2018	*University of Cambridge, Psychological and Behavioural Sciences Tripos*: Supervisor
2013-2017	*UCL Department of Experimental Psychology*: Statistics demonstrator
2013-2014	*The Access Project*: University Outreach Program, Tutor
2010-1011	*First Chances*: University of St Andrews Outreach Program, Tutor

Administrative Experience

2018-2019	*MRC Cognition and Brain Sciences Unit, University of Cambridge*: Seminar organizer
2017-2019	*University of Cambridge*: Interview panel member
2012-2013	*Psychology Society, University of St Andrews*: President

Research Experience

Summer 2012	*UC Berkeley Social Interaction Lab*: Research assistant
Summer 2010	*Max Planck Institute for Human Cognitive and Brain Sciences*: Research assistant
Summer 2009	*Max Planck Institute for Evolutionary Anthropology*: Research assistant

Relevant Training

2017 - 2018	*University of Cambridge*, Researcher Development Courses: longitudinal modelling, grant applications
2016-2017	*Cauldron*, software company: Trainee software developer
2013-2016	*University College London*, Graduate School Training Courses: SPM, Python, Bayesian analysis, logistic regression, regression in R
2009-2016	*Cusanuswerk*, Summer Schools: concepts of mental health, mathematical modelling, freedom and security

Invited Talks

2018: The neurocognitive architecture of fluid ability. Flux Congress 2018, *Flux Society,* Berlin, DE

2018: Building blocks of cognitive performance. Practitioner Day*, CALM,* Cambridge, UK

2018: The neurocognitive architecture of fluid ability. Postdoc Symposium, *University of Cambridge,* Cambridge, UK

2017: Plasticity and learning in adolescence. Wednesday Lunch Time Seminar, *MRC Cognition and Brain Sciences Unit,* Cambridge, UK

2017: Generalized Linear Models. MRC Methods Day, *MRC Cognition and Brain Sciences Unit,* Cambridge, UK

2017: Plasticity and learning in adolescence. School of Psychology Seminar, *University of Birmingham,* Birmingham, UK

2017: Cardiovascular and white matter health in ageing. CBU Science Day, *MRC Cognition and Brain Sciences Unit,* Cambridge, UK

2017: Plasticity and learning in adolescence. Tea Time Talk, *UCL Institute of Cognitive Neuroscience*, London, UK

2016: Inside the adolescent brain. Advisory Meeting of the Global Girls Initiative, *Overseas Development Institute*, London, UK

2015: Social Cognition in adolescence. Countdown 2030, *PATH,* London, UK

2014: Motor mimicry in chimpanzee observational learning. Seminar given at the Department of Cognitive Biology, *University of Vienna*, Vienna, AU

Interests & Skills

Statistics:	Generalized Mixed Models, Structural Equation Modelling
Programming:	Proficient programming and statistical analysis in R and MATLAB. Experience with JavaScript and Python.
Ad-hoc reviewing:	PNAS, Journal of Neuroscience, Cerebral Cortex, Developmental Cognitive Neuroscience, UNESCO, Advances in Methods and Practices in Psychological Science, Intelligence
Public engagement:	I have given talks about adolescent brain development at over 15 schools around London and regularly take part in panel discussions, e.g. on global health issues

Publications

Fuhrmann, D.*, Chierchia, G.*, Knoll, L., Sakhardande, A., & Blakemore, S. (2018). The Abstract Reasoning Task (ART): Normative data for a novel, open-access abstract reasoning task in a sample of adolescents and adults. doi: 10.31219/osf.io/uvteh *Joint first authors

Fuhrmann, D., Simpson-Kent, I. L., Bathelt, J. et al. (2018). The neurocognitive architecture of fluid ability in children and adolescents. *bioRxiv,* 435719*,* doi: 10.1101/435719

Fuhrmann, D. et al. (in press). Strong and specific associations between cardiovascular risk factors and brain white matter micro- and macro-structure in healthy ageing. *Neurobiology of Aging*, doi: 10.1016/j.neurobiolaging.2018.10.005

Tibon, R., Fuhrmann, D., Levy, D. A., Simons, J., & Henson, R. N. (in press). Multimodal integration and vividness in the angular gyrus during episodic encoding and retrieval. *The Journal of Neuroscience*, 393553

Fuhrmann, D., Leung, J., Griffin, C. Schweizer, S. & Blakemore, S.J. (2018). The neurocognitive correlates of academic diligence in adolescent girls. *Cognitive Neuroscience*, doi: 10.1080/17588928.2018.1504762

Kievit, R.A., Fuhrmann, D., Borgeest, G.S. et al. (2018). The neural determinants of age-related changes in fluid intelligence: A pre-registered, longitudinal analysis in UK Biobank. *Wellcome Open Research,* 3:38, doi: 10.12688/wellcomeopenres.14241.1

Foulkes, L., Leung, J., Fuhrmann, D. & Blakemore, S-J. (2018). Age differences in the prosocial influence effect. *Developmental Science*, e12666, doi: 10.1111/desc.12666

Fuhrmann, D., Simpson-Kent, I. L., Bathelt, J. et al. (2018). The neurocognitive architecture of fluid ability in children and adolescents. *bioRxiv*, 435719, doi: 10.1101/435719

Fuhrmann, D. (2017). Plasticity and learning in adolescence. PhD Thesis. *University College London,* London, UK

Fuhrmann, D.*, Knoll, L.J.*, Sakhardande, A., et al. (2016). A window of opportunity for cognitive training in adolescence. *Psychological Science, 27*(12):1620-1631. doi: 10.1177/0956797616671327. *Joint first authors.

Fuhrmann, D., Knoll, L.J., Sakhardande, A., et al. (2016). Perception and recognition of faces in adolescence. *Scientific Reports,* 6(33497), doi:10.1038/srep33497

Fuhrmann, D., Knoll, L.J., & Blakemore, S.-J. (2015). Adolescence as a sensitive period of brain development. *Trends in Cognitive Sciences*, 19 (10), doi:10.1016/j.tics.2015.07.008

Fuhrmann, D., Ravignani, A., Marshall-Pescini, S. et al. (2014). Synchrony and motor mimicking in chimpanzee observational learning. *Scientific Reports*, 4(5283), doi:10.1038/srep05283