
Delia Fuhrmann

University of Cambridge
15 Chaucer Road, Cambridge, CB2 7EF
telephone: 01223 355 204
email: Delia.Fuhrmann@mrc-cbu.cam.ac.uk
website: www.delia-fuhrmann.com

Big Data:	Secondary Data Analysis, Psychometrics, Open Science
Lifespan Development:	Child & Adolescent Development, Cognitive Ageing, Learning & Plasticity
Neuroimaging:	MRI, DTI, White Matter Hyperintensities

Research & Education

2017-2020	University of Cambridge , MRC Cognition and Brain Sciences Unit & Sidney Sussex College Research Associate with Dr. Rogier Kievit <ul style="list-style-type: none">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 <ul style="list-style-type: none">Topic: Plasticity and learning in adolescence
2009-2013	University of St Andrews , School of Psychology and Neuroscience BSc Honours Psychology (1 st class), other subjects studied: Biology and Divinity <ul style="list-style-type: none">Dissertation on chimpanzee social learning with Prof. Andrew Whiten

Selected Prizes & Research Funding

2019	MRC Special Award for excellent performance in 2018, UK Medical Research Council
2018	British Neuroscience Association Postgraduate Award for the best British Neuroscience PhD in 2017
2009-2017	Cusanuswerk Fellowship for BSc studies and PhD Research
2013-2017	Statistics Demonstratorship (scholarship) for PhD research, Division of Psychology and Language Sciences, UCL
2016-2017	Scholarship Enhancement for PhD research from Jacob's Foundation Prize to Sarah-Jayne Blakemore
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

Research Visits

Spring 2018	Alan Turing Institute for Data Science and AI , London, UK: Data Study Group delegate
Summer 2012	UC Berkeley Social Interaction Lab , Berkeley, US: Research assistant
Summer 2010	Max Planck Institute for Human Cognitive and Brain Sciences , Leipzig, DE: Research assistant
Summer 2009	Max Planck Institute for Evolutionary Anthropology , Leipzig, DE: Research assistant

Teaching & Supervision

2015- 2020	Co-supervision of PhD students , University of Cambridge and UCL: Ivan Simpson-Kent, Caroline Casey
2018-2019	Lectures & Workshops , Medical Research Council: Introduction to Matlab, Introduction to Structural Equation Modelling, Introduction to Mixed Models
2017-2018	Psychology supervisions , University of Cambridge: Psychological and Behavioural Sciences Tripos
2013-2017	BSc and MSc statistics tutorials, statistics consultations on MSc theses, UCL Department of Experimental Psychology
2013-2014	Tutor , The Access Project: University Outreach Program, Tutor
2010-2011	Tutor , First Chances: University of St Andrews Outreach Program, Tutor

Administration

2019 -2020	Environment Committee , MRC Cognition and Brain Sciences Unit, University of Cambridge
2018-2019	Seminar Committee , MRC Cognition and Brain Sciences Unit, University of Cambridge
2017-2018	Interview Panel , University of Cambridge
2012-2013	President of the Psychology Society , University of St Andrews:

Invited Talks

2019:	Harnessing Big Data to understand development. Seminar, Bielefeld, DE
2019:	Greater verbal ability in childhood predicts less loneliness in adolescence. British Association of Cognitive Neuroscience, Cambridge, UK
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

Publications

Papers, pre-registrations, materials & scripts are available from <https://www.delia-fuhrmann.com/publications>

- Fuhrmann, D.**, Casey, C.S., Speekenbrink, M. & Blakemore, S.J. (accepted). Social Exclusion Affects Working Memory Performance in Young Adolescent Girls. *Developmental Cognitive Neuroscience* [OA once in press]
- Fuhrmann, D.***, Chierchia, G.* Knoll, L., Piera Pi-Sunyer, B., Sakhardande, A., & Blakemore, S.J. (accepted). The Matrix Reasoning Item Bank (MaRs-IB): Novel, Open-Access Abstract Reasoning Items for Adolescents and Adults. *Royal Society Open Science* [OA via <https://osf.io/uvteh/>]
- Fuhrmann, D.**, Simpson-Kent, I. L., Bathelt, J., the CALM team & Kievit, R.A. (in press). A Hierarchical Watershed Model of Fluid Intelligence in Children and Adolescents. *Cerebral Cortex*, doi: 10.1101/435719 [OA]
- Fuhrmann, D.**, Nesbitt, D., Shafto, M., Rowe, J.B., Price, D. Gadie, A., Cam-CAN & Kievit, R.A. (in press). Strong and Specific Associations between Cardiovascular Risk Factors and Brain White Matter Micro- and Macrostructure in Healthy Aging. *Neurobiology of Aging*, doi: 10.1016/j.neurobiolaging.2018.10.005 [OA]
- Tibon, R., **Fuhrmann, D.**, Levy, D. A., Simons, J., & Henson, R.N.A. (in press). Multimodal integration and vividness in the angular gyrus during episodic encoding and retrieval. *The Journal of Neuroscience*, 393553 [OA]
- Simpson-Kent, I. L., **Fuhrmann, D.**, Bathelt, J., Achterberg, J., Borgeest, G.S., the CALM team & Kievit, R.A. (preprint). Neurocognitive Reorganization between Crystallized Intelligence, Fluid Intelligence and White Matter Microstructure in Two Age-Heterogeneous Developmental Cohorts. *bioRxiv*, 593509 [OA]
- 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 [OA]
- Kievit, R.A., **Fuhrmann, D.**, Borgeest, G.S., Simpson-Kent, I.L., Henson, R.N.A. (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 [OA]
- 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 [OA]
- Fuhrmann, D.** Learning and Plasticity in Adolescence. PhD Thesis, *University College London*, London, UK [OA]
- Fuhrmann, D.***, Knoll, L.J.*, Sakhardande, A.L., Stamp, F., Speekenbrink, M., Blakemore, S.J. (2016). A Window of Opportunity for Cognitive Training in Adolescence. *Psychological Science*, 27(12):1620-1631. doi: 10.1177/0956797616671327 *Joint first authors [OA via <https://bit.ly/2MiiWlm>]
- 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 [OA]
- Fuhrmann, D.**, Knoll, L.J., Sakhardande, A. & Blakemore, S.J. (2016). When to Teach What: Are There Sensitive Periods for Learning in Adolescence? *Nuffield Foundation*. URL: <https://www.nuffieldfoundation.org/sites/default/files/files/Blakemore%20-%20Nuffield%20Main%20Report%2012%20Jan%202017%20Final.pdf> [OA]
- 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 [OA via <https://bit.ly/2KEwFeg>]
- Fuhrmann, D.**, Ravignani, A., Marshall-Pescini, S. & Whiten, A. (2014). Synchrony and Motor Mimicking in Chimpanzee Observational Learning. *Scientific Reports*, 4(5283), doi:10.1038/srep05283 [OA]
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Training Courses

2017 - 2018	Researcher Development Courses , University of Cambridge: supervising undergraduates, grant applications with impact
2013-2016	Graduate School Training Courses , University College London: Gateway Workshop for Postgraduate Teaching Assistants, SPM, Python, Bayesian analysis, logistic regression, regression in R
2009-2016	Cusanuswerk Summer Schools : conceptualisations of mental health, mathematical modelling, freedom and security

Interests & Skills

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 workshops for educational practitioners & panel discussions, e.g. on global health issues
