Delia Fuhrmann

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Work & Education

2020 - present	**King's College London**, Institute of Psychology, Psychiatry and Neuroscience Lecturer • Teaching: Research methods • Research: Plasticity and sensitive periods
2017-2020	**University of Cambridge**, MRC Cognition and Brain Sciences Unit & Sidney Sussex College Research Associate with Dr. Rogier Kievit • Research: Modelling lifespan development of executive functions
2013-2017	**University College London**, Institute for Cognitive Neuroscience PhD under the supervision of Prof. Sarah-Jayne Blakemore • Research: 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

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

Invited Talks

2019: Bringing theory to Big Data in Psychology. Seminar, Max Planck for Human Development, Berlin, DE

2019: Using Dynamic Measurement Models to estimate cognitive capacity. MRC Methods Day, MRC Cognition and Brain Sciences Unit, Cambridge, UK

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

Simpson-Kent, I. L., Fuhrmann, D., et al. (2020). Neurocognitive reorganization between crystallized intelligence, fluid intelligence and white matter microstructure in two age-heterogeneous developmental cohorts. *Developmental Cognitive Neuroscience* 41: 100743, doi: 10.1016/j.dcn.2019.100743

Fuhrmann, D., Simpson-Kent, I. L., Bathelt, J., the CALM team & Kievit, R. A. (2019). The neurocognitive architecture of fluid ability in children and adolescents. *Cerebral Cortex* bhz091, doi: 0.1093/cercor/bhz091

Fuhrmann, D.*, Chierchia, G.*, Knoll, L., Piera Pi-Sunyer, B.Sakhardande, A., & Blakemore, S-J. (2019). The Matrix Reasoning Item Bank (MaRs-IB): Novel, Open-Access Abstract Reasoning Items for Adolescents and Adults. *Royal Society Open Science*, 6: 190232, doi: 10.1098/rsos.190232, *joint first authors

Fuhrmann, D., Casey, C.S., Speekenbrink, M. & Blakemore, S.J. (2019). Social Exclusion Affects Working Memory Performance in Young Adolescent Girls. *Developmental Cognitive Neuroscience,* 40:100718, doi: 10.1016/j.dcn.2019.100718

Fuhrmann, D. et al. (2019). Strong and specific associations between cardiovascular risk factors and brain white matter micro- and macro-structure in healthy ageing. *Neurobiology of Aging* 74, 46-55, doi: 10.1016/j.neurobiolaging.2018.10.005

Tibon, R., Fuhrmann, D., Levy, D. A., Simons, J., & Henson, R. N. (2019). Multimodal integration and vividness in the angular gyrus during episodic encoding and retrieval. *The Journal of Neuroscience* 39 (22), 4365-4374, doi: 10.1523/JNEUROSCI.2102-18.2018

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

Fuhrmann, D.*, Knoll, L.J.*, Sakhardande, A., 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

Fuhrmann, D., Knoll, L.J., Sakhardande, A., Speekenbrink, M., Cohen Kadosh, K. & Blakemore, S-J. (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., & Whiten, A. (2014). Synchrony and motor mimicking in chimpanzee observational learning. *Scientific Reports*, 4(5283), doi:10.1038/srep05283

Preprints

Tsvetanov, K. A., ..., Fuhrmann, D. et al. (preprint). The effects of age on resting-state BOLD signal variability is explained by cardiovascular and neurovascular factors, *bioRxiv* 836619; doi: 10.1101/836619