

Delia Fuhrmann

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Research & Education

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| 2017-2020 | <i>MRC Cognition and Brain Sciences Unit, University of Cambridge</i>
Postdoctoral Trainee with Dr. Rogier Kievit <ul style="list-style-type: none">• Topic: Modelling lifespan development of executive functions |
| 2013-2017 | <i>University College London, Institute for Cognitive Neuroscience</i>
PhD under the supervision of Prof. Sarah-Jayne Blakemore and Dr. Maarten Speekenbrink <ul style="list-style-type: none">• Topic: Plasticity and learning in adolescence |
| 2009-2013 | <i>University of St Andrews, School of Psychology and Neuroscience</i>
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 |
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Awards & Prizes

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| 2019 | <i>MRC Special Award</i> , UK Medical Research Council |
| 2018 | <i>Postgraduate Award</i> , British Neuroscience Association |
| 2017 - 2020 | <i>Research Associate</i> at Sidney Sussex College, University of Cambridge |
| 2018 | <i>Data Study Group Delegate</i> at the Alan Turing Institute |
| 2018 | <i>Travel Award</i> of the Flux Society to attend Flux 2018 |
| 2018 | <i>Travel Award</i> of the Journal of Intelligence to attend Flux 2018 |
| 2018 | <i>Poster Prize</i> at the Cambridge Neuroscience Seminar |
| 2016 | <i>Travel Award</i> of the Cusanuswerk to attend SfN 2017 |
| 2016-2017 | <i>Scholarship Enhancement</i> from Jacob's Foundation Prize to Sarah-Jayne Blakemore |
| 2015 | <i>Travel Award</i> Guarantors of Brain to attend Flux 2015 |
| 2013-2017 | <i>Statistics Demonstratorship</i> at the Division of Psychology and Language Sciences, UCL |
| 2009-2017 | <i>Cusanuswerk Fellowship</i> of the Federal Republic of Germany |
| 2014 | <i>Cecily De Monchaux Research Prize</i> 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 | <i>Malcolm Jeeves Award</i> for best student in Psychology BSc at the University of St Andrews |
| 2010 | <i>Barber Price</i> for Divinity at the University of St Andrews |
| 2009-2013 | <i>The Deans' List Award</i> of the University of St Andrews for academic excellence |
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Teaching Experience

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| 2018-2019 | <i>MRC Cognition and Brain Sciences Unit</i> , graduate program, Lecturer |
| 2017-2018 | <i>University of Cambridge, Psychological and Behavioural Sciences Tripos</i> : Supervisor |
| 2013-2017 | <i>UCL Department of Experimental Psychology</i> : Statistics demonstrator |
| 2013-2014 | <i>The Access Project</i> : University Outreach Program, Tutor |
| 2010-2011 | <i>First Chances</i> : University of St Andrews Outreach Program, Tutor |
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Administrative Experience

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

Research Experience

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

Relevant Training

2017 - 2018	<i>University of Cambridge</i> – Supervising Undergraduates, Researcher Development Courses: longitudinal modelling, grant applications
2016-2017	<i>Cauldron</i> , software company – Behavioural Science consultant
2013-2016	<i>University College London</i> - Teaching Undergraduates, Graduate School Training Courses: SPM, Python, Bayesian analysis, logistic regression, regression in R
2009-2016	<i>Cusanuswerk</i> , Summer Schools: concepts of mental health, mathematical modelling, freedom and security

Invited Talks

2019: Big Theory for Big Data: Harnessing Big Data to understand development, <i>Bielefeld University</i> , Bielefeld, DE
2018: The neurocognitive architecture of fluid ability. Flux Congress 2018, <i>Flux Society</i> , Berlin, DE
2018: Building blocks of cognitive performance. Practitioner Day, <i>CALM</i> , Cambridge, UK
2018: The neurocognitive architecture of fluid ability. Postdoc Symposium, <i>University of Cambridge</i> , Cambridge, UK
2017: Plasticity and learning in adolescence. Wednesday Lunch Time Seminar, <i>MRC Cognition and Brain Sciences Unit</i> , Cambridge, UK
2017: Generalized Linear Models. MRC Methods Day, <i>MRC Cognition and Brain Sciences Unit</i> , Cambridge, UK
2017: Plasticity and learning in adolescence. School of Psychology Seminar, <i>University of Birmingham</i> , Birmingham, UK
2017: Cardiovascular and white matter health in ageing. CBU Science Day, <i>MRC Cognition and Brain Sciences Unit</i> , Cambridge, UK
2017: Plasticity and learning in adolescence. Tea Time Talk, <i>UCL Institute of Cognitive Neuroscience</i> , London, UK
2016: Inside the adolescent brain. Advisory Meeting of the Global Girls Initiative, <i>Overseas Development Institute</i> , London, UK
2015: Social Cognition in adolescence. Countdown 2030, <i>PATH</i> , London, UK
2014: Motor mimicry in chimpanzee observational learning. Seminar given at the Department of Cognitive Biology, <i>University of Vienna</i> , Vienna, AU

Expertise & Skills

<i>Statistics:</i>	Generalized Mixed Models, Structural Equation Modelling
<i>Programming:</i>	Proficient programming and statistical analysis in R and MATLAB. Experience with JavaScript and Python.
<i>Ad-hoc reviewing:</i>	PNAS, Journal of Neuroscience, Cerebral Cortex, Developmental Cognitive Neuroscience, UNESCO, Advances in Methods and Practices in Psychological Science, Intelligence
<i>Public engagement:</i>	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., Simpson-Kent, I. L., Bathelt, J., the CALM team & Kievit, R. A. (in press). The neurocognitive architecture of fluid ability in children and adolescents. *Cerebral Cortex*, doi: 10.1101/435719
- Fuhrmann, D.*, Chierchia, G.*, Knoll, L., Sakhardande, A., & Blakemore, S. (2019). 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. 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
- Simpson-Kent, I., Fuhrmann, D., et al. (2019). Neurocognitive reorganization between crystallized intelligence, fluid intelligence and white matter microstructure in two age-heterogeneous developmental cohorts. *bioRxiv*, doi: 10.1101/593509
- 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. (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
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