

# Delia Fuhrmann

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## RESEARCH AND EDUCATION

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| 2017-2020 | <b>MRC Cognition and Brain Sciences Unit</b> , University of Cambridge<br><i>Postdoctoral Trainee with Dr. Rogier Kievit</i> <ul style="list-style-type: none"><li>• Topic: Modelling lifespan development of executive functions</li></ul>   |
| 2013-2017 | <b>University College London</b> , Institute for Cognitive Neuroscience<br><i>PhD under the supervision of Prof. Sarah-Jayne Blakemore and Dr. Maarten Speekenbrink</i> <ul style="list-style-type: none"><li>• Topic: Plasticity and learning in adolescence</li></ul>                             |
| 2009-2013 | <b>University of St Andrews</b> , School of Psychology and Neuroscience<br><i>BSc Honours Psychology (1<sup>st</sup> class), other subjects studied: Biology and Divinity</i> <ul style="list-style-type: none"><li>• Dissertation on chimpanzee social learning with Prof. Andrew Whiten</li></ul> |
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## SCHOLARSHIPS & AWARDS

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| 2017 - 2020 | <b>Research Associate</b> at Sidney Sussex College, University of Cambridge  |
| 2016-2017   | <b>Scholarship enhancement</b> from Jacob's Foundation Prize to Sarah-Jayne Blakemore  |
| 2013-2017   | <b>Statistics Demonstratorship</b> at the Division of Psychology and Language Sciences, UCL  |
| 2009-2017   | <b>Cusanuswerk Fellowship</b> of the Federal Republic of Germany   |
| 2014        | <b>Cecily De Monchaux Research Prize</b> 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        | <b>Malcolm Jeeves Award</b> for best student in Psychology BSc at the University of St Andrews   |
| 2009-2013   | <b>The Deans' List Award</b> of the University of St Andrews for academic excellence   |
| 2010        | <b>Barber Price</b> for Divinity at the University of St Andrews   |
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## RESEARCH EXPERIENCE

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| Summer 2012 | <b>UC Berkeley Social Interaction Lab</b> , <i>Research assistant</i> <ul style="list-style-type: none"><li>• Development and implementation of an experimental paradigm on awe and prosociality</li></ul>   |
| Summer 2010 | <b>Max Planck Institute for Human Cognitive and Brain Sciences</b> , <i>Research assistant</i> <ul style="list-style-type: none"><li>• Development, implementation and data-analysis of a pilot for an fMRI study on visual enhancement of touch</li></ul> |
| Summer 2009 | <b>Max Planck Institute for Evolutionary Anthropology</b> , <i>Research assistant</i> <ul style="list-style-type: none"><li>• Statistical and genetic analysis of primate hierarchies</li></ul>  |
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## TEACHING EXPERIENCE

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| 2017-2018 | <b>University of Cambridge, Psychological and Behavioural Sciences Tripos, Supervisor</b> <ul style="list-style-type: none"><li>Tutorial teaching for undergraduate Experimental Psychology</li></ul> |
| 2013-2017 | <b>UCL Department of Experimental Psychology, <i>Statistics demonstrator</i></b> <ul style="list-style-type: none"><li>Laboratory class teaching at undergraduate and postgraduate level</li></ul>    |
| 2013-2014 | <b>The Access Project, <i>Tutor</i></b> <ul style="list-style-type: none"><li>Tutoring A-Level Biology students from inner London school</li></ul>  |
| 2010-2011 | <b>First Chances, University of St Andrews Outreach Program, <i>Tutor</i></b> <ul style="list-style-type: none"><li>Tutoring research projects in Scottish state schools</li></ul>                    |
| 2008-2009 | <b>Hostelling International Bolivia, <i>Teaching assistant</i></b> <ul style="list-style-type: none"><li>Teaching English and Mathematics at schools in Bolivia</li></ul>                             |
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## ADMINISTRATIVE EXPERIENCE

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| 2012-2013 | <b>Psychology Society of St Andrews, <i>President</i></b> <ul style="list-style-type: none"><li>Management of the society; establishment of a journal club and an international seminar that was awarded a prize in the Student Unions' competition of the event of the year</li></ul> |
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## RELEVANT TRAINING

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| 2016-2017 | <b>Secondment at Cauldron, software company, <i>Trainee software developer</i></b> <ul style="list-style-type: none"><li>Implementation of online executive function tasks in JavaScript as part of a part-time secondment</li></ul> |
| 2013-2016 | <b>University College London, Graduate School Training</b> <ul style="list-style-type: none"><li>Courses completed: SPM, Python, Bayesian Analysis, Logistic Regression, Regression in R</li></ul>                                   |
| 2009-2016 | <b>Cusanuswerk, Summer Schools</b> <ul style="list-style-type: none"><li>Topics included: concepts of mental health, mathematical modelling, freedom and security</li></ul>  |
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## INTERESTS AND SKILLS

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| <b>Statistics:</b>        | Generalized Mixed Models, Structural Equation Modelling   |
| <b>Programming:</b>       | Proficient programming and statistical analysis in R and MATLAB. Experience with JavaScript and Python.   |
| <b>Ad-hoc reviewing:</b>  | Cerebral Cortex, Developmental Cognitive Neuroscience, UNESCO, Advances in Methods and Practices in Psychological Science, Intelligence                           |
| <b>Public engagement:</b> | 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 |
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## INVITED TALKS

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- 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
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## PUBLICATIONS

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- Foulkes, L., Leung, J., **Fuhrmann, D.** & Blakemore, S-J. (in press). Social influence on prosociality between childhood and adulthood. *Developmental Science*
- Fuhrmann, D.** et al. Cardiovascular risk factors for micro- and macro-structural brain changes in healthy ageing. *bioRxiv* 264770; doi: <https://doi.org/10.1101/264770>
- 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*. \*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.**, Ravnani, A., Marshall-Pescini, S., & Whiten, A. (2014). Synchrony and motor mimicking in chimpanzee observational learning. *Scientific Reports*, 4(5283), doi:10.1038/srep05283
- Fuhrmann, D.**, Casey, C.S., Speekenbrink, M., & Blakemore, S.J. (under review). Social exclusion affects working memory performance in young adolescent girls. *Cognitive Development*
- Fuhrmann, D.**, Leung, J., Griffin, C. Schweizer, S. & Blakemore, S.J. (under review). The neurocognitive mechanisms of diligence. *Cognitive Neuroscience*
- Fuhrmann, D.**, Knoll, L.J., Sakhardande, A., Speekenbrink, M., Cohen Kadosh, K. & Blakemore, S-J. (in prep.). Training identity, expression and gaze perception.
- Sakhardande, A., **Fuhrmann, D.**, Knoll, L.J., Cappelletti, M., Speekenbrink, M. & Blakemore, S-J. (in prep.). Training numerosity discrimination: The effect of congruence.
- Knoll, L.J., **Fuhrmann, D.**, Sakhardande, A., Stamp, F., Speekenbrink, M. & Blakemore, S-J. (in prep.). Development of non-verbal reasoning in adolescence.
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