

Curriculum vitae

PERSONAL INFORMATION

NAME

EMAIL

RESEARCH INTERESTS

Dr Lydia Gabriela Speyer

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Quantitative Methods, Child and Adolescent Mental Health

EDUCATION

SEP 2018–JULY 2021

PhD in Psychology, School of Philosophy, Psychology and Language Sciences, University of Edinburgh (UK)

- *Co-occurring Mental Health Problems across Childhood and Adolescence: Within-Person Developmental Relations, Mediators and Antecedents*

SEP 2017–AUG 2018

Master of Science in Developmental Cognitive Science, School of Philosophy, Psychology and Language Sciences, University of Edinburgh (UK), Pass with Distinction (Average 80%)

OCT 2014–JUN 2017

Bachelor of Arts in English and American Studies (specialising in Linguistics), University of Salzburg (Austria), Pass with Distinction

TEACHING EXPERIENCE

SINCE OCTOBER 2021

Supervisor – Small Group Teaching, Department of Psychology, University of Cambridge (UK)

- Psychology and Behavioural Sciences Tripos: Developmental Psychopathology (3rd year Undergraduate Course)
- Natural Sciences Tripos: Behavioural and Cognitive Neuroscience (3rd year Undergraduate Course)
- Psychology and Behavioural Sciences Tripos: Psychological Enquiry and Methods (1st year Undergraduate Course)

14TH JANUARY 2021

Short Course on using ALT-SR and GVAR models, Centre for Research in Professional Learning Research Methods Seminar Series, University of Exeter

- Workshop to using autoregressive latent trajectory models with structured residuals and graphical vector autoregression models for the analysis of longitudinal data

10TH OCTOBER & 15TH
DECEMBER 2020

Short Course on Longitudinal Data Analysis Methods, R Ladies & EdinbR, Edinburgh

- Introductory workshop to using graphical modelling and structural equation modelling for the analysis of longitudinal data

SEP 2018–MAY 2021

Statistics Tutor, Department of Psychology, University of Edinburgh (UK)

- Univariate Statistics and Methodology using R (MSc Course)
- Multivariate Statistics and Methodology using R (MSc Course)
- Research Methods & Statistics - Data Analysis for Psychology in R (1st, 2nd & 3rd year Undergraduate Courses)

MAR 2017–JUL 2017

Teaching Assistant, Department of English and American Studies, University of Salzburg (Austria)

- holding weekly seminars for first year students (Introduction to Linguistics)

MENTORING EXPERIENCE

CO-SUPERVISION

Assisted supervising 15 undergraduate dissertations at the University of Edinburgh (2018-present)

SELECTED
UNDERGRADUATE
DISSERTATIONS

Evelyn Antony & Milla Pihlajamäki: Does emotion dysregulation mediate the association between ADHD symptoms and internalizing problems? A longitudinal within-person analysis in a large population-representative study. Conditionally accepted for publication in *Journal of Child Psychology and Psychiatry*.

Lara Carter: Late adolescent outcomes of different developmental trajectories of ADHD

symptoms in a large longitudinal study. Currently under review at *Psychological Medicine*.

PEDAGOGICAL TRAINING AND AWARDS

2020

Award for Outstanding Work as a Statistics Tutor, University of Edinburgh

NOV 2019 – APR 2020

Edinburgh Teaching Award - Associate Fellowship of the Higher Education Academy

- 6-month course for engaging in continuing professional development, learn about pedagogical research practices and to reflect on own teaching and assessment practices
- Leading to professional accreditation with the Higher Education Academy

2019

Award for Outstanding Work as a Statistics Tutor, University of Edinburgh

RESEARCH EXPERIENCE SINCE MAY 2021

Postdoctoral Research Associate, Developmental Cognitive Neuroscience Lab (led by Professor Sarah-Jayne Blakemore), Department of Psychology, University of Cambridge (UK)

- Cambridge Mind App Study: Tracking mental health, loneliness, everyday behaviours and technology use during the Covid-19 pandemic – An ecological momentary assessment study

MAY 2020–JUN 2021

Research Assistant, Department of Psychology, University of Edinburgh (UK)

- Funded by the Data Driven Innovation Initiative (named RA)
- Investigating the effect of COVID-19 on births in Scotland

MAR 2017–AUG 2017

Research Assistant, Department of English and American Studies, University of Salzburg (Austria)

- Reviewing literature, designing experiments, collecting and analysing data, writing up results for publication (self-paced reading study of learners' of English)

ACADEMIC-RELATED ACTIVITIES

Academic Leadership

Tutor Representative, Department of Psychology, University of Edinburgh (2018-2020)

Consultancy Work

Statistics Consultant, Department of Psychology, University of Cambridge (2021-present)

Conference Organising
Committee

Second Language Grammar Acquisition, University of Salzburg (2016)

Linguistics and English Language PG Conference, University of Edinburgh (2019)

Selected Reviewing

Journal of Affective Disorders, Children, Archives of Women's Mental Health, Journal of Nervous and Mental Disease, Social Psychiatry and Psychiatric Epidemiology

Selected Public Engagement

BBC Radio Scotland: Interview on Longitudinal Effects of Breastfeeding on Child Behaviour
Newspapers (e.g. Telegraph, Daily Mail): Longitudinal Effects of Breastfeeding on Parent-reported Child Behaviour

FUNDING

Principal's Career Development Scholarship, University of Edinburgh (2018-2021)

Stipend for Academic Excellence, University of Salzburg (2017)

MEMBERSHIPS

Associate Fellow, Higher Education Academy

Affiliated Postdoctoral Member, Clare Hall, University of Cambridge

PUBLICATIONS AND CONFERENCES

- Speyer, L. G.**, Hang, Y., Hall, H. A., Murray, A. L. (2022). The Role of Harsh Parenting Practices in Early- to Middle-Childhood Socio-Emotional Development: An Examination in the Millennium Cohort Study. *Child Development*. In Press.
- Antony, E. M., Pihlajamäki, M., **Speyer, L. G.**, Murray, A. L. (2022). Does emotion dysregulation mediate the association between ADHD symptoms and internalizing problems? A longitudinal within-person analysis in a large population-representative study. *The Journal of Child Psychology and Psychiatry*. Conditionally Accepted.
- Speyer, L. G.**, Obsuth, I., Ribeaud D., Eisner M., Luciano, M., Auyeung, B., Murray, A. L. (2022). Mediating Factors in Within-Person Developmental Cascades of Externalising, Internalising and ADHD Symptoms in Childhood. *Research on Child and Adolescent Psychopathology*. In Press.
- Speyer, L. G.**, Marryat, L. Auyeung, B. (2021). Effects of COVID-19 Public Health Safety Measures on Births in Scotland between March and May 2020. *Public Health*. Online First <https://doi.org/10.1016/j.puhe.2021.10.013>.
- Speyer, L. G.**, Eisner M., Ribeaud D., Luciano, M., Auyeung, B., Murray, A. L. (2021). A Symptom Level Perspective on Reactive and Proactive Aggressive Behaviours and ADHD Symptoms in Childhood. *The Journal of Child Psychology and Psychiatry*. Online First. <https://doi.org/10.1111/jcpp.13556>.
- Speyer, L. G.**, Hall, H. A., Hang, Y., Hughes, C., Murray, A. L. (2021). Within-Family Relations of Mental Health Problems across Childhood and Adolescence. *The Journal of Child Psychology and Psychiatry*. Online First. <https://doi.org/10.1111/jcpp.13572>.
- Speyer, L. G.**, Ushakova, A., Hall, H. A., Luciano, M., Auyeung, B., Murray, A. L. (2021). Analysing Dynamic Change in Children's Socio-Emotional Development using the Strengths and Difficulties Questionnaire in a large UK Longitudinal Study. *Journal of Abnormal Psychology*. Online First. <https://doi.org/10.1037/abn0000714>.
- Speyer, L. G.**, Neaves, S., Hall, H. A., Hemani G., Lombardo, M. V., Murray, A. L., Auyeung B*, Luciano, M.* (2021). Polygenic Risks for Joint Developmental Trajectories of Internalising and Externalising Problems: Findings from the ALSPAC Cohort. *The Journal of Child Psychology and Psychiatry* Online First. <https://doi.org/10.1111/jcpp.13549>.
- Murray, A. L., Ushakova, A., **Speyer, L. G.**, Brown, R., Auyeung, B., Zhu, X. (2021) Sex/gender differences in individual and joint trajectories of common mental health symptoms in early to middle adolescence. *JCPP Advances*. Online First. <https://doi.org/10.1002/jcv2.12057>.
- Speyer, L. G.**, Eisner, M., Ribeaud, D., Luciano, M., Auyeung, B., Murray, A. L. (2021). Developmental Relations between Internalising Problems and ADHD in Childhood: A Symptom Level Perspective. *Research on Child and Adolescent Psychopathology*. Online First. <https://doi.org/10.1007/s10802-021-00856-3>.
- Hang Y, Soto C, **Speyer, L. G.**, Haring L, Lee B, Ostendorfd B, Möttus R. (2021). Age Differences in the Big Five Personality Domains, Facets and Nuances: A Replication across the life span. *Journal of Research in Personality*. Online First. <https://doi.org/10.1016/j.jrp.2021.104121>.
- Murray, A. L., **Speyer, L. G.**, Hall, H. A., Valdebenito, S., Hughes, C. (2021). Teacher versus parent informant invariance of the Strengths and Difficulties Questionnaire. *Journal of Pediatric Psychology*. Online First. <https://doi.org/10.1093/jpepsy/jsab062>.
- Hall, H. A., **Speyer, L. G.**, Murray, A. L., Auyeung, B. (2021). Prenatal maternal infections and children's neurodevelopment in the UK Millennium Cohort Study: A focus on ASD and ADHD. *Journal of Attention Disorders*. Online First. <https://doi.org/10.1177/10870547211015422>.
- Speyer, L. G.**, Brown, R., Camus, L., Murray, A. L., Auyeung, B. (2021). Alexithymia and autistic traits as contributing factors to empathy deficits in preadolescent children. *Journal of Autism and Developmental Disorders*. Online First. <https://doi.org/10.1007/s10803-021-04986-x>.
- Murray, A. L., **Speyer, L. G.**, Hall, H. A., Valdebenito, S., Hughes, C. (2021). A longitudinal invariance analysis of the Strengths and Difficulties Questionnaire across ages 3,5,7,11,14 and 17 in a large UK-representative sample. *Assessment*. Online First. <https://doi.org/10.1177/10731911211009312>.

- Murray A. L., Hall, H. A., **Speyer, L. G.**, Carter L, Mirman D, Rhode L, Caye A. (2021). Brief Developmental trajectories of ADHD symptoms in a large population-representative longitudinal survey. *Psychological Medicine*. Online First. <https://doi.org/10.1017/S0033291721000349>.
- Murray, A. L., Obsuth, I., **Speyer, L. G.**, Murray, G. C., McKenzie, K., Eisner, M., Ribeaud D. (2021). Developmental cascades from aggression to internalizing problems via peer and teacher relationships from early to middle adolescence. *Journal of Youth and Adolescence*. Online First. <https://doi.org/10.1007/s10964-021-01396-1>.
- Speyer, L. G.**, Hall, H. A., Ushakova, A., Murray, A. L., Luciano, M., Auyeung, B. (2020). Longitudinal Effects of Breastfeeding on Parent-Reported Child Behaviour. *Archives of Disease in Childhood*. Online First. <http://dx.doi.org/10.1136/archdischild-2020-319038>.
- Speyer, L. G.**, Hall, H. A., Ushakova, A., Murray, A. L., Luciano, M., Auyeung, B. (2020). Links between Perinatal Risk Factors and Maternal Psychological Distress: A Network Analysis. *Acta Obstetrica et Gynecologica Scandinavica*. Online First. <https://doi.org/10.1111/aogs.14056>.
- Hall, H. A., **Speyer, L. G.**, Murray, A. L., Auyeung B. (2020). Prenatal maternal infections and children's socioemotional development: Findings from the UK Millennium Cohort Study. *European Child & Adolescent Psychiatry*. Online First. <https://doi.org/10.1007/s00787-020-01644-y>.
- Speyer, L. G.**, Schleef, E. (2018). Processing 'Gender-neutral' Pronouns: A Self-paced Reading Study of Learners of English. *Applied Linguistics*, 40(5), 793-815. <https://doi.org/10.1093/applin/amy022>.

UNDER REVIEW

- Speyer, L. G.**, Hall, H. A., Ushakova, A., Luciano, M., Murray, A. L., Auyeung, B. (revised and resubmitted to *Research on Child and Adolescent Psychopathology*). Dynamic Change in Socio-Emotional Development during Childhood and Adolescence. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/wn6pb>.
- Speyer, L. G.**, Brown, R., Ribeaud D., Eisner M., Murray, A. L. (revised and resubmitted to *Journal of Autism and Developmental Disorders*) The role of moment-to-moment dynamics of perceived stress and negative affect in co-occurring ADHD and internalising symptoms. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/d5u38>
- Hang, Y., Soto C, **Speyer, L. G.**, Lee B, Murray, A., L., Möttus, R. (revised and resubmitted to *Journal of Personality*). Social expectations and abilities to meet them as possible mechanisms of youth personality development. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/8yp6x>.
- Hang, Y.*, **Speyer, L. G.***, Haring, L., Murray, A., L., Möttus, R. (under review at *Journal of Research in Personality*). Predicting the General P-factor of Psychopathology using Lower Levels of the Personality Hierarchy. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/g3aqh>.
- Murray, A. L., Grossart, C., Hall, H. A., **Speyer, L. G.**, Harfetz Mirman, J., Mirman, D., Hughes, C. (under review at *The Journal of Child Psychology and Psychiatry*). Predictors of informant disagreements in child mental health: an application of latent difference score modelling.
- Hall, H. A., **Speyer, L. G.**, Lombardo, M. V., Murray, A. L., Auyeung, B. (under review at *BMC Public Health*). Associations between prenatal maternal infections and children's socioemotional outcomes: Evidence from the ALSPAC cohort. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/gf6m5>.
- Hall, H. A., **Speyer, L. G.**, Lombardo, M. V., Murray, A. L., Auyeung, B. (under review at *Epidemiology and Psychiatric Sciences*). Links between prenatal maternal infections and childhood psychopathology: Evidence from the ALSPAC birth cohort. *PsyArXiv* pre-print: <https://doi.org/10.31234/osf.io/hnbjg>.
- Best, K, **Speyer, L. G.**, Murray, A. L., Ushakova, A. (revised and resubmitted to *Longitudinal and Life Course Studies*). Prediction of Attrition in Large Longitudinal Studies: Tree-based methods versus Multinomial Logistic Models. *SocArXiv* pre-print: <https://doi.org/10.31235/osf.io/tyszr>.
- Hang, Y., **Speyer, L. G.**, Haring, L., Lee, B., Vainik, U., Luciano, M., Möttus, R. (under review at *Journal of Research in Personality*). Establishing a Health Network of

Personality Profiles for Adolescents and Emerging Adults. PsyArXiv pre-print:
<https://doi.org/10.31234/osf.io/4qh96>.

Brown, R., **Speyer, L. G.**, Obsuth, I., Ribeaud D., Eisner M., Murray, A. L. (under review at *Psychology of Addictive Behaviors*). The mediating role of emotional lability in the relation between adult ADHD symptoms, alcohol and cannabis consumption: an ecological momentary assessment study. PsyArXiv pre-print:
<https://doi.org/10.31219/osf.io/9vwmc>.

Kwok, J., **Speyer, L. G.**, Soursou, G., Murray, A. L., Fanti, K., Auyeung, B. (under review at *Child Development*). Effects of maternal metabolic health on child developmental outcomes: A Born in Bradford Study.

Brown, R., **Speyer, L. G.**, Eisner M., Ribeaud D., Murray, A. L. (under review at *The Journal of Child Psychology and Psychiatry*) Exploring the effect of ADHD traits on the moment-to-moment interplay between provocation and aggression: evidence from dynamic structural equation modelling. PsyArXiv pre-print: <https://doi.org/10.31234/osf.io/d5u38>.

Hemady, C. L., **Speyer, L. G.**, et al., (under review at *BMC Pregnancy and Childbirth*) Patterns of adverse childhood experiences and associations with prenatal substance use and poor infant outcomes in a multi-country cohort of mothers: A Latent Class Analysis. MedArXiv pre-print: <https://doi.org/10.1101/2021.07.23.21261027>.

Hemady, C. L., **Speyer, L. G.**, Kwok, J., Meinck, F., Melendez-Torres, G. J., Fry, D., Auyeung, B., Murray, A. L. (under review at *BMC Medicine*) Using network analysis to illuminate the intergenerational transmission of adversity in the ALSPAC cohort.

Carter, L., **Speyer, L. G.**, Caye, A., Rhode, L., Murray, A. L. (under review at *Psychological Medicine*). Late adolescent outcomes of different developmental trajectories of ADHD symptoms in a large longitudinal study. PsyArXiv pre-print:
<https://doi.org/10.31234/osf.io/eb3vj>.

SELECTED PRESENTATIONS

Conference Talk: Analysing Longitudinal Data using Random-Intercept Cross-lagged Panel Models and Dynamic Structural Equation Modelling, Methods Day Cognition and Brain Sciences Unit, University of Cambridge (2022)

Invited Talk: Investigating Within-Person Developmental Cascades across Multiple Mental Health Domains, Individual Differences Journal Club, University of Edinburgh (2021)

Invited Talk: Using Network Analysis to Investigate Links between Perinatal Risk Factors and Maternal Psychological Distress, Psychiatry Journal Club, University of Edinburgh (2020)

Conference Poster: Restructuring the Millennium Cohort Study data sets for longitudinal analysis in R: An Open Science project, Dealing with Data Conference, University of Edinburgh (2020)

Conference Talk: Longitudinal Effects of Breastfeeding on Parent-Reported Child Behaviour, Children and Young People's Mental Health and Wellbeing Conference, University of Stirling (2019)