

Curriculum vitae

PERSONAL INFORMATION

NAME **Dr Lydia Gabriela Speyer**
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PHONE NUMBER **+43 650 6914172**
RESEARCH INTERESTS **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

- 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)