Elliot Millington

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Education

2020 – 2024 University of Glasgow
PhD in Psychology
Thesis Title: Sensorily Stressed: An Exploration of the Relationship between Anxiety and Sensory Reactivity in Autistic People
Supervisors: Dr David Simmons & Prof Neil McDonnell

2019 – 2020 University of Glasgow
MSc in Research Methods of Psychological Science (Distinction)
Dissertation Title: Modelling Cross-Cultural Heterogeneity of Autistic Traits and Sensory Sensitivities in Typically Developing Populations
Supervisor: Dr David Simmons

2015 – 2019 University of Glasgow
MA (SocSci) in Psychology (1st Class Honours)
Dissertation Title: Building a Motivational Profile of Autistic Gamers
Supervisor: Dr Heather Woods

Research Experience

2020 – 2023 Academic Researcher
Edify
A part-time role supporting Edify's research and development goals. Projects include exploring different methods of gaze detection for estimating engagement in Virtual Reality and investigating how differing levels of detail of virtual avatars impact emotion recognition.

2019 – 2020 UX Research Intern
University of Glasgow
Supervised by Dr Joanna Wincenciak. A six-month position applying eye-tracking and qualitative research methods to analyse user experiences of a Virtual Learning Environment.

2018 Research Assistant
University of Glasgow
Supervised by Dr David Simmons. A three-month funded position in collaboration with the Glasgow Science Centre using item analysis techniques to investigate the sensory reactivity of children.

Publications

Millington, E., Hayashibara, E., Arthur, T., Husselman, T., Savickaite, S., Taylor, R. (2022). Neurodivergent Participatory Action Research in Virtual Reality (VR). *Journal of Enabling Technologies*. 16, pp. 141-146. https://doi.org/10.1108/JET-05-2022-0037

Savickaite, S., Arthur, T., **Millington, E.**, Husselman, T., Taylor, R., Hayashibara, E. (2022). Applications of Virtual Reality (VR) in Autism Research: Current trends and taxonomy of definitions. *Journal of Enabling Technologies*. 16, pp. 147-154. https://doi.org/10.1108/JET-05-2022-0038

Millington, E., Simmons, D.R. & Cleland Woods, H. (2022). Brief Report: Investigating the Motivations and Autistic Traits of Video Gamers. *J Autism Dev Disord.* 52, pp. 1403–1407 https://doi.org/10.1007/s10803-021-04994-x

Savickaite, S., McNaughton, K., Gaillard, E., Amaya, I., McDonnell, N., **Millington, E.**, & Simmons, D. (2021). Exploratory study on the use of HMD virtual reality to investigate individual differences in visual processing styles. *Journal of Enabling Technologies*. 16, pp. 48-69. https://doi.org/10.1108/JET-06-2021-0028

Millington, E., & Simmons, D. (2023, July 10). Development and Validation of the Glasgow Sensory Questionnaire Short (GSQ-14). https://doi.org/10.31234/osf.io/84kgt

Savickaite, S., **Millington, E.**, Freeman, C., McMillan, R., McDonnell, N., & Khamis, M. (2022, June 20). ALIVE: Avatar Learning Impact Assessment for Virtual Environments. https://doi.org/10.31219/osf.io/rmeq8

Savickaite, S., **Millington, E.**, Latkovskis, I., Failes, J., Kirkwood, N., & McDonnell, N. (2022, January 11). Virtual Reality (VR) Multi-User Lab for Immersive Teaching. https://doi.org/10.31234/osf.io/3w4hv

Millington, E., Brown, L., McMahon, H., Robertson, A. E., & Simmons, D.R. (2021, April 27). Children's Glasgow Sensory Questionnaire (C-GSQ): Validation of a Simplified and Visually Aided Questionnaire. https://doi.org/10.31234/osf.io/f6bg2

Awards

2022	Immersive Learning Research Network Award for Innovative Pedagogy
2021	International Society for Autism Research Student and Trainee Award
2020	Best Performing Student in MSc Research Methods Class of 2019–2020
2016	Level 2 Psychology Certificate of Academic Excellence
2015	Alexander Smart Memorial Award
2015	Level 1 Psychology Certificate of Academic Excellence

Conferences and Invited Talks

2023	The Theory of Autistic Anxiety – Scottish Autism and Creatovators CIC
2023	International Society of Autism Research Poster on 'GSQ-14: A Short Version of the Glasgow Sensory Questionnaire'
2023	It Takes All Kinds of Minds Poster on 'Preliminary Analysis of Autistic Experiences of Sensory Overload'
2022	Applications of Virtual Reality in Autism Research Conference Presentation on 'Neurodivergent Participatory Action Research in Virtual Reality'
2022	Annual Conference of the Immersive Learning Research Network Presentation on 'ALIVE: Avatar Learning Impact Assessment for Virtual Environments'
2022	Annual University of Glasgow Learning and Teaching Conference Poster on User design for digital education: a combined UX and eye tracking study evaluating online course in Psychology'
2021	Annual Conference of the Immersive Learning Research Network Presentation on 'Teaching in VR and Cognitive Load: A Teacher's Perspective'
2021	International Society for Autism Research Poster on 'Latent Structure of Sensory Features Across Cultures'
2021	International Society for Autism Research Poster on 'Comparison Between Caregiver and Child Report of Sensory Sensitivities'
2019	'Investigating the links between Autism, Anxiety, and Video Games' – University of Strathclyde

Related Professional Skills

- Trained and adept in C#, Java, MATLAB, Python, R, and SQL.
- Experienced using Unity and the Virtual Reality Toolkit for research purposes.
- Skilled at applying a diverse range of models and statistical techniques to administrative, experimental, and psychometric data.

Non-Academic Work

2022 – present Information Analyst
Glasgow Association of Mental Health
Using a Customer Management Database to develop data reports to fulfil charity legal requirements, respond to business needs, and assist local policymaking.

2021 – present PhD Tutor
University of Glasgow
Teach undergraduate and postgraduate students the principles and practice of research methods, with an emphasis on the quantitative data analysis for their research projects.

2019 – present Volunteer Activities Support Worker
Creatovators CIC
Assist with the running of a support group for autistic children and their families. Maintain IT systems and represent the organisation at meetings with potential and current collaborators.

2021	Social Research Intern
	Scottish Government
	Provided analytical services for the Autism and Learning Disability team. This included producing policy-relevant reports from administrative datasets and identifying data needs for improved policymaking.

2020 – 2021	Demonstrator
	University of Glasgow
	Supervised by Martin Lages. A three-month role developing learning aids for advanced statistics for the School of Psychology. This was done primarily using R Markdown and Shiny.

Academic Services

2023 – present	Scottish Autism Research Group Committee Member
2021 – 2023	Applications of Virtual Reality in Autism Research Conference Organisation Committee Member
2021 – 2023	University of Glasgow Autism Journal Club Seminar Series Organiser
2022	Guest Editor for Journal of Enabling Technologies

Professional Affiliations

| 2019 – present | Graduate Member of the British Psychological Society |
| 2019 – present | Student Member of the International Society for Autism Research |

References

Dr David Simmons
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Dr Neil McDonnell
School of Humanities, University of Glasgow
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Dr Karri Gillespie-Smith
School of Health in Social Science, University of Edinburgh
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