





# Filippo Ferrari

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## SUMMARY

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I am a final year PhD student in Computational Psychiatry, with two years of experience as a Data Scientist, interested in developing tools and technologies aimed at helping diagnosing and delivering interventions for mental health disorders. My expertise is in anxiety, decision-making and Bayesian computational models of behaviour.

## EDUCATION

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| <b>PhD Computational Psychiatry</b><br><i>University of Edinburgh, School of Informatics</i> <ul style="list-style-type: none"><li>Thesis: <i>Computational Modelling of Behavioural Differences in Anxiety Disorders</i></li></ul>   | 2020 - 2024                       |
| <b>MSc Artificial Intelligence</b><br><i>University of Edinburgh, School of Informatics</i> <ul style="list-style-type: none"><li>Dissertation: <i>Insects' Central Complex Path Integration model using Spiking Neurons</i></li><li>Courses: Machine Learning and Pattern Recognition, Computational Cognitive Neuroscience, Deep Learning, Advanced Computer Vision</li></ul> | 2019 - 2020<br><i>Distinction</i> |
| <b>BSc Artificial Intelligence with Industrial Experience</b><br><i>University of Manchester, School of Computer Science</i> <ul style="list-style-type: none"><li>Final Year Project: <i>Spiking Neural Network Shape Detector</i></li></ul>   | 2015 - 2019<br><i>First Class</i> |


## WORK EXPERIENCE

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| <b>Data Scientist</b><br><i>Innovative Technology Ltd.</i> <ul style="list-style-type: none"><li>Involved in researching, developing, implementing and shipping novel on-device Machine Learning and Computer Vision algorithms for banknote validators</li></ul> | 2017 - 2019<br><i>Manchester, UK</i> |
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## PUBLICATIONS

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- Ferrari, F.**, Alexander, J., Seriès, P. (2023). Risk and loss aversion and attitude to COVID and vaccines in anxious individuals [Preprint]. bioRxiv 

## PRESENTATIONS

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| Poster Presentation   Eleventh Symposium on Biology of Decision Making (SBDM) | Paris 2023 |
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## TEACHING EXPERIENCE

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| <b>University of Edinburgh</b>   <i>Teaching Support Provider</i> <ul style="list-style-type: none"><li>Co-supervision of BSc and MSc projects.</li><li>Computational Cognitive Neuroscience (MSc Level): Marker and coursework design.</li><li>Foundations of Data Science (BSc Level): Tutor and Marker.</li></ul> | 2020 - 2024 |
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## SKILLS

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**Languages:** Python, R, MATLAB, C/C++, JavaScript, HTML/CSS,  $\text{\LaTeX}$   
**Techniques:** Bayesian Modelling, Reinforcement Learning, Online Human Behavioural Experiments, Drift Diffusion Models, Prospect Theory, Data Science, Computer Vision  
**Tools:** PyMC, Prolific, JsPsych, Numpy, Pandas, PyTorch