

Paul Fisher

PhD Researcher

I am a researcher in Cognitive Neuroscience specialising in statistics and vision research with extensive experience of Machine Learning tools in both Python and MATLAB. I have a strong background in data-science where I developed advanced frequentist and bayesian statistical skills. My research has been published in reputable scientific journals on topics such as MRI Imaging with ML SVMs where I contributed code to international collaborative research team projects. My Master's Thesis was also guided by my research knowledge on contemporary K-Fold cross-validation techniques. I am determined to advance my career in the world of data-science and have recently begun documenting my portfolio of projects on Github and my website.

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EXPERIENCE

Ph.D Researcher - Vision LMU, Munich

06/2019 - Present

- Published in high impact scientific journals.
- Experience with Python, R, and MATLAB to perform data analysis tasks and semi-automation of data pipelines. (Capturing, cleaning, transforming, visualising).
- Advanced statistical skills including inferential and bayesian statistical models, psychometrics, and behavioural hypothesis testing

Data Science Research Assistant LMU, Munich

01/2018 - 12/2018

- Semi-automated data pipeline involving data collection, preprocessing, and data transformation using EEGLab and R.
- Project management including recruitment of EEG participants, experiment design (Python), and testing.
- Mentoring Bachelor students.

Machine Learning Research Assistant PRONIA team, Munich

11/2017 - 10/2018

- Masters Thesis - Support Vector Machine and Out of Sample Cross Validation of Schizophrenia structural brain images looking for biomarkers (MATLAB).
- Neuropsychological test data management.

Clinical Research Assistant German Center for Vertigo and Balance Disorders

01/2017 - 12/2017

- Prototyping point-of-care application for bedside testing of spatial orientation and memory (Published).
- End user testing for UAT research, data collection and analysis (SPSS and EXCEL).

EDUCATION

Master of Science - Neuro-Cognitive Psychology LMU, Munich - First Class Honours

10/2016 - 06/2018

Bachelor of Science - Psychology Canterbury Christ Church University - First Class Honours

10/2013 - 06/2016

SKILLS

Python Machine Learning GitBash
Version Control SQL Deep Learning
R MATLAB CI/CD C++
Tableau

PROJECTS

Image Classification using Xception ML 95% Accuracy

Able to predict real world examples with high accuracy.
https://pauliou.github.io/project_image_classifier

Deep Learning for Titanic Competition on Kaggle

78% Accuracy (top 15% in competition leaderboard). Utilises custom parameter refinement effectively.

R Shiny App designed from scratch

Can run correlations, t-tests, parametrics, descriptives. Outputs publishable quality figures.

COVID Statistics using Tableau

Dashboard showcasing simple visualisation techniques

PROGRAMMING SKILLS

Python (2016 - Present)
- NumPy Pandas Tensorflow Keras Matplotlib Scikit-Learn
R Studio (2018 - Present)
- nlme sjstats Rmisc dplyr ggplot2 rstatix Shiny
MATLAB (2017 - Present)
- Psychtoolbox
SQL (2021 - Present)
- SSMS PopSql

CERTIFICATES

Intro to Deep Learning (2022)
Kaggle

Computer Vision (2022)
Kaggle