

# Peter Rush

Open-source software developer and data science/ESOL teacher

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Bangkok, Thailand

## EXPERIENCE

Independent Contractor 04/2025 - Present

### NumFocus

- Modernizing the [Scientific Python Lecture Notes](#); porting to MystMD format
- Developed [prerequisite materials](#) for the [Advanced Scientific Python Programming Summer School](#). Received positive feedback from the Summer School instructor

Course Instructor 11/2024 - Present

### Global Academy at Siam University/Insight English

- Lecturing in Academic English & Writing on dual degree Computer Science/Business programs offered between Siam University, Thailand and La Trobe University, Australia

Private Tutor in Data Science/Programming 09/2024 - Present

### Classgap

- Delivering 1-on-1 tuition in Python and R
- [5-star rating from all students](#)

Assistant Lecturer in Data Science 07/2023 - 08/2024

### London Interdisciplinary School

- Taught open-source, reproducible data science, focused on giving students step-by-step understanding at the level of code and algorithms
- Received excellent [feedback from students](#)
- Wrote numerous chapters for the [course textbook](#)
- Supervised student capstone projects
- Chaired multiple vivas

Research Associate (Psychology) 01/2022 - 12/2023

### University of Birmingham

- Coded experimental tasks in MATLAB; wrote Python scripts to ensure data quality at the time of collection via automated tests
- Carried out statistical analysis using R scripts after data collection
- Automated several aspects of study administration such as automatically drafting participant emails whilst checking for scheduling conflicts

Graduate Teaching Associate (Data Science) 10/2020 - 07/2023

### University of Birmingham

- Modules: Introduction to Data Science (Python) | Foundations of Data Science (Python) | Fundamentals in Brain Imaging (FSL) | Developing Skills (R)
- [Created materials](#) used in undergraduate and postgraduate workshops and lectures

## SCIENTIFIC PUBLICATIONS

Autistic and non-autistic prosocial decision-making: The impact of recipient neurotype 2025

### Research in Autism Spectrum Disorders

Rush, P., Keating, C. T., Lugtmeijer, S., Allmark, E., Davis, A., Beejadhur, A., Tarling, A., Hannon, S., Todd, K., Iddles, A., Vichare, C., Gachomba, M. J. M., Lockwood, P. L., Apps, M., & Sowden-Carvalho, S.

<https://doi.org/10.1016/j.jreia.2025.202710>

## REFERENCES

### Dr Matthew Brett

Email: [matthew.brett@gmail.com](mailto:matthew.brett@gmail.com)  
[matthew.dynevor.org/index.html](http://matthew.dynevor.org/index.html)

### Dr Anson Cheung

Email: [anson.cheung@lis.ac.uk](mailto:anson.cheung@lis.ac.uk)  
[cam.ac.uk/users/achc2](http://cam.ac.uk/users/achc2)

## EDUCATION

### MA Philosophy of Mind & Cognitive Science

University of Birmingham (2018)

### BA Psychology & Philosophy

University of Oxford (2016)

## SKILLS

Python · R · MATLAB · FSL · GitHub ·

LaTeX · Data Science ·

Machine Learning ·

Open Source Software Development ·

ESOL teaching

## SOFTWARE DEVELOPMENT

### Jupyter

- Project description: A simple python package to print markdown and LaTeX equations from code cells in Jupyter notebooks
- Role: developer and maintainer
- Downloads: 13,000+
- [github.com/jupyterprint](https://github.com/jupyterprint)

### Show In Browser

- Project description: A simple python package to display pandas DataFrames and matplotlib/plotly graphs in a browser.
- Role: developer and maintainer.
- Downloads: 8,000+
- [github.com/show\\_in\\_browser](https://github.com/show_in_browser)

## SELECTED DATA SCIENCE TUTORIALS

### Data Science in Practice

Brett, M. & Rush, P.

2024

[lisds.github.io/dsip/intro.html](https://lisds.github.io/dsip/intro.html)

## CERTIFICATIONS

Certificate in Teaching English to Speakers of Other Languages (CELTA)

International House Bangkok, 09/2024