Dr Joe Gallagher

Address: 7 Bentley Road, Prenton, Wirral, CH43 5RX

Email: joedgallagher@gmail.com Telephone: +44 (0) 771 610 0583

Website: https://jogall.github.io

PERSONAL PROFILE

Data-driven biologist with expertise in data analysis and interpretation; experienced in the design and conduct of experimental work from the ground-up. Seeking data analyst roles in order to transition into the field of data science, ideally in areas of biological science or health care.

EDUCATION

Sept 2011 - Mar 2016	Doctor of Philosophy, University of Sheffield, UK
	"Gregarious immunisation in the mealworm beetle,
	Tenebrio molitor"
Sept 2007 - June 2011	MBiolSci Zoology, University of Sheffield, UK
	First Class (Hons.)
Sept 2005 - July 2007	Birkenhead Sixth Form College, Wirral, UK
	A2-Level Biology (A), Mathematics (A), Psychology (A)

SKILLS SUMMARY

Technical skills

- R programming: statistical analysis (regression, general linear models, mixed modeling, principal component analysis, etc...), machine learning (classification, resampling, random forest), trajectory analysis, graphical visualisation (ggplot2), package development and documentation (using knitr)
- Microsoft Excel: pivot tables, VLOOKUP, macros
- Computer vision: automated analysis of microscopy images used in invertebrate immunology assays (C++); developed motion tracking software (C++) to quantify insect locomotion and behaviour
- Web development: HTML5, CSS3, some JavaScript, PHP
- Relational databases: design and queries (MySQL, SQLite); basic administration (phpmyadmin)
- Web scraping and data / text mining (JSON/XML)
- Bash scripting on Linux OS
- Use of scientific databases (e.g. Web of Science for citation indexing)

Communication and teamwork skills

- Published in peer-reviewed scientific journals (available on request)
- Reviewer for peer-reviewed scientific journals

- Oral and poster presentations at scientific conferences
- **Teaching assistant on** numerous undergraduate **laboratory practicals** (2011 2015)
- Provided technical training on laboratory techniques and data analysis to visiting students and members of staff
- Co-supervised several undergraduate and Masters research projects
- Active contributor to outreach programme 'Discovery' at University of Sheffield, a series of interactive workshops and talks aimed at promoting STEM to schoolchildren (2012-2016)

Other employment skills

- Experience working with the public and providing customer service in a variety of commercial environments, including retail, kitchen and bar work
- Comfortable in high pressure environments and working to strict deadlines

RECENT EMPLOYMENT

Ph.D., University of Sheffield, UK (Sept 2011 - Mar 2016)

- Four year research project requiring innovation, initiative, and patience to develop and answer a novel question in the field of insect immunology
- Developed skills in logical reasoning, experimental design, and data analysis; improved time-management through meeting regular deadlines
- Gained new laboratory and computational skills through a combination of independent learning, collaboration, and attending training courses, conferences, and workshops
- Honed communication skills by working with peers, regularly presenting and discussing results, and through teaching and supervisory roles

GENERAL EMPLOYMENT

Sept 2011 - Dec 2015	Graduate teaching assistant (University of Sheffield)
Aug 2010 - Sept 2010	Field assistant (CNRS de Moulis, France)
Sept 2008 - May 2009	Chef (The Cavendish, Sheffield)
June 2008 - Sept 2008	Chef / Bar staff (Central Hotel, Wirral)
Dec 2005 - Sept 2007	Retail assistant (NEXT, Wirral)
Aug 2005 - Dec 2005	Retail assistant (Iceland Frozen Foods, Wirral)

REFERENCES

References are available on request.

Joe Gallagher CV Page 2 of 2