

# ABRAHAM GIHAWI

## Computational Biologist

An interdisciplinary scientist in cancer microbial bioinformatics seeking the next step.

### EDUCATION

- 2021 | 2017 • **PhD Computational Biology**  
Thesis: Searching for Pathogens in Cancer Sequence Data UEA
- 2017 | 2015 • **MSc, Cancer Therapeutics - Distinction - 80%**  
Project: PHLDA1 in FGFR Inhibitor Resistant Cancer QMUL
- 2014 | 2011 • **BSc (hons) Biomedical Science - 69%**  
Project: A Portable Test for Bacteria & Urobilinogen in Urine Lincoln

### EXPERIENCE

- 2021 | 2022 • **Post-Doctoral Senior Bioinformatics Officer**  
Cancer Genetics and Metagenomics UEA  
• Investigating links between pathogens and aggressive prostate cancer
- 2017 | 2015 • **Medical Laboratory Assistant**  
Royal Sussex County Hospital Brighton  
• Processed and analysed clinical samples in adherence with trial protocols
- 2015 | 2014 • **Health Advisor NHS 111**  
Care UK Dorking  
• Triage patients and provided healthcare advice via telephone
- 2014 | 2013 • **NHS Experience Placements**  
Princess Diana & Scunthorpe General Grimsby & Scunthorpe  
• Departments including: Radiology, Nuclear Medicine, Cardiology, Pathology (Biochemistry, Haematology, Transfusion, Andrology, Virology)

### PUBLICATIONS

- 2019 • **SEPATH: benchmarking the search for pathogens in human tissue whole genome sequence data leads to template pipelines**  
Genome Biology DOI: 10.1186/s13059-019-1819-8  
Abraham Gihawi, Ghanasyam Rallapalli, Rachel Hurst... Daniel S. Brewer
- 2019 • **Potential for diagnosis of infectious disease from the 100,000 Genomes Project Metagenomic Dataset: Recommendations for reporting results**  
Wellcome Open Research DOI: 10.12688/wellcomeopenres.15499.1  
Gkikas Magiorkinis... Abraham Gihawi... Colin Cooper.

### OTHER

**Successful Grants:** "Unravelling how bacterial infection drives the development of aggressive prostate cancer" - Prostate Cancer UK

**Peer Review:** Genome Biology (BMC), Genomics (Elsevier)

### CONTACT

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### SKILLS

**Programming:** R, Python, Unix

**Expertise:**

Computational Pipelines  
Microbial Bioinformatics  
High Performance Computing  
Dimensionality Reduction  
Translational Cancer Research

### CONFERENCES

**Posters:**

[NCRN Symposium \(2020\)](#) 🏆  
[Genomics England \(2019\)](#)  
[EMBL Heidelberg \(2018\)](#)

**Talks:**

[NCRN \(2021\)](#)  
[UEA PGR Conference \(2018\)](#)

### REFERENCES

[Prof. Daniel Brewer](#)  
[D.Brewer@uea.ac.uk](mailto:D.Brewer@uea.ac.uk)

[Prof. Colin Cooper](#)  
[Colin.Cooper@uea.ac.uk](mailto:Colin.Cooper@uea.ac.uk)

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