

# REGINA H REYNOLDS

Molecular biologist turned bioinformatician, with a passion for systems-level biology, statistics and data visualisation and the application of these to answer biological questions. My current work explores the role of different cell types in neurodegeneration, making use of large-scale genomic and transcriptomic datasets.

## EDUCATION

2021  
|  
2016



### PhD, Bioinformatics

University College London

📍 London, UK

- Thesis: Exploring the importance of cell-type-specific gene expression regulation and splicing in Parkinson's disease<sup>7</sup>
- Integrated bulk-tissue and single-cell transcriptomic data with summary-level genetic association data to investigate the role of cell-type-specific gene expression regulation and splicing in Parkinson's disease.
- Published 3 first/co-first author research articles and 1 first author review.
- Successfully secured £10,000 from Signe og Peter Gregersens Mindefond to undertake transcriptional profiling of Parkinson's disease brain tissue.

2016  
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2014



### MSc, Molecular Biomedicine

University of Copenhagen

📍 Copenhagen, Denmark

- Thesis: Changes in the miR-34a-SIRT1 axis in Huntington's disease
- Grade: A (92.5%)

2013  
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2010



### BSc, Molecular Biomedicine

University of Copenhagen

📍 Copenhagen, Denmark

- Thesis: Pro-apoptotic factors in Huntington's disease: a study in the R6/2 transgenic mouse model
- Grade: A (96.7%)



## WORK EXPERIENCE

Present  
|  
2022



### Principal Bioinformatician

CoSyne Therapeutics

📍 London, UK

2022  
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2021



### Research Fellow

University College London

📍 London, UK

- Lead analyst involved in processing and analysing transcriptomic data generated with the aim of identifying molecular signatures of Parkinson's disease progression. Work done primarily using R, nextflow and docker.
- Co-lead of Code and Pipeline Alignment Working Group in the Aligning Sciences Across Parkinson's<sup>2</sup> initiative. This group aims to maximize the value of data generated from finite post-mortem brain tissues through code alignment, which will enable eventual meta-analysis.

View this resume online with links at <https://rhreynolds.github.io/cv>

## CONTACT

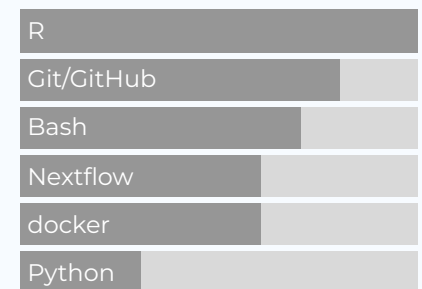
✉ [rhreynolds@hotmail.co.uk](mailto:rhreynolds@hotmail.co.uk)

🐙 [GitHub](#)

in [LinkedIn](#)

📖 [ResearchGate](#)

## PROGRAMMING LANGUAGES





*The long-form version of my CV, with a list of publications, conferences attended and voluntary work is available [here](#).*

*Made with the R packages [datadrivencv](#) and [pagedown](#).*




*The source code is available [GitHub](#).*

*Last updated on 2022-10-24.*

- 2016  
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2016
 **Research Assistant**  
 University of Copenhagen  Copenhagen, Denmark
  - Led project exploring the interactions between miR-34a, Sirt1 and p53 in a Huntington's disease mouse model, which culminated in a first author publication<sup>3</sup>.
- 2015  
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2013
 **Housing Assistant**  
[DIS, Study Abroad in Scandinavia, Denmark](#)  Copenhagen, Denmark
  - Student assistant involved in general administrative tasks; organisation of bi-annual orientation meeting for hosts/students; and conflict mediation between hosts and students.



## TEACHING EXPERIENCE

- Present  
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2021
 **Subsidiary PhD Supervisor**  
 University College London  London, UK
  - Involved in top-level project planning and provide a second opinion/additional areas of expertise where appropriate.
- 2022  
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2019
 **R fundamentals with Clinician Coders<sup>4</sup>**  
 University College London  London, UK
  - Developed materials<sup>5</sup> and led workshops teaching basic R and tidy data principles to clinical academics.
- 2019  
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2017
 **Omics Techniques**  
 King's College London  London, UK
  - Lectured graduate level students on the principles of genome-wide association studies and led a workshop on how/why to use the Genotype-Tissue Expression portal.



## LINKS

- 1: <https://discovery.ucl.ac.uk/id/eprint/10119171/>
- 2: <https://parkinsonsroadmap.org/research-network/pd-functional-genomics/>
- 3: <https://pubmed.ncbi.nlm.nih.gov/29289683/>
- 4: <https://www.ucl.ac.uk/school-life-medical-sciences/about-slms/office-vice-provost-health/academic-careers-office/career-schemes/clinician-coders>
- 5: <https://github.com/ClinicianCoders/ClinicianCoders>