

TBA

University College London

University College London

University College London

Queen Elizabeth's School

Johns Hopkins Bloomberg School of Public Health

University College London

Last updated on 2021-02-23.



INDUSTRY EXPERIENCE

2020



Bioinformatician internship (3 months)

Verge Genomics

📍 Remote

- Detection of aberrant splicing events in complex disease patients.



SOFTWARE & PROGRAMMING

Present

|

2020



Bioconductor packages

- `dasper`³: detection of aberrant splicing events in RNA-sequencing. Author and maintainer. XXX downloads.
- `megadepth`⁴: BigWig and BAM related utilities. An R wrapper for the `megadepth`⁵ software developed. Co-author and maintainer. XXXX downloads.

2021



Chess analysis

- Applying python and data science principles through the analysis⁶ of chess data.

2021

|

2020



Advanced R

- Notes and answers to the advanced R⁷ book in the form of a bookdown⁸.

2020



Kaggle town

- Organised club to study python and machine learning through kaggle⁹ problems.

2018

|

2016



Data wrangling

Neuroimmunology & CSF Laboratory, NHS

📍 London, UK

- Developer and maintainer of data wrangling pipelines that improved the efficiency and standardisation of monthly financial reports.



TEACHING EXPERIENCE

2020



Developing Bioconductor Packages

University College London

📍 Virtual Event

- Hosted workshop¹⁰ on best practices for developing Bioconductor using `biocthis`¹¹

2020



Unit testing using `testthat` edition 3

rstats club

📍 Virtual Event

- Talk¹² regarding unit testing fundamentals, the importance of testing and new features released in the R package `testthat` edition 3.

2020
|
2018



R fundamentals

Clinician Coders

📍 London, UK

- Developed materials¹³ and lead facilitator for teaching R to clinicians.

2020
|
2017



RNA-sequencing for diagnostics

Kings College London

📍 London, UK

- Invited lecturer to graduate level students on how transcriptomics can be applied in the diagnostic pipeline.



SELECTED PUBLICATIONS

2020



Megadepth: efficient coverage quantification for BigWigs and BAMs

Bioinformatics

- Authored with Richard Single, Vanja Paunic, Mark Albrecht, and Martin Maier.



LINKS

- 1: <http://lcolladotor.github.io/cv/>
- 2: <http://bioconductor.org/packages/release/bioc/html/recount3.html>
- 3: <https://bioconductor.org/packages/release/bioc/html/dasper.html>
- 4: <https://bioconductor.org/packages/release/bioc/html/megadepth.html>
- 5: <https://github.com/ChristopherWilks/megadepth>
- 6: <https://github.com/dzhang32/chess>
- 7: <https://adv-r.hadley.nz>
- 8: https://dzhang32.github.io/advanced_R/
- 9: <https://github.com/dzhang32/kagglings>
- 10: https://dzhang32.github.io/biocthis_workshop/
- 11: <https://bioconductor.org/packages/release/bioc/html/biocthis.html>
- 12: <https://youtu.be/CIain7vTwq0>
- 13: <https://github.com/ClinicianCoders/ClinicianCoders>