Benjamin L. Moore

Bioinformatics PhD and data scientist

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Currently

Final year PhD Bioinformatics student at the University of Edinburgh, due to finish around September 2015.

Education

2012–15	**University of Edinburgh** Bioinformatics PhD (supervisors: Colin Semple and Stuart Aitken)
2011–12	**Imperial College London** MSc Bioinformatics and Theoretical Systems Biology (Distinction)
2008–11	**University of York** BSc Biology (First class honours)

Presentations

Tutorials	2014	WikiProject Computational Biology half-day tutorial (ISMB, Boston, USA)
Talks	2015	EdinbR: The Edinburgh R usergroup (various)
	2014	Unravelling higher order chromatin structure (4th Edinburgh Bioinformatics meeting, Edinburgh, UK)
		blogR: pop data analysis and R for the web (Psychology R-users, Edinburgh, UK)
Posters	2015	Unravelling higher order chromatin organisation (Keystone Epigenomics, Colorado, USA)
	2013	Integrative modelling of higher order chromatin structure (Genome informatics, CSHL, NY)
		Unravelling higher order chromatin structure (EpiGeneSys, Cambridge, UK)

Publications

2015	**Moore BL** et al. Integrative modelling reveals the principles of multi-scale chromatin boundary formation in human nuclear organization. (In review)
2013	**Moore BL** et al. High–quality protein backbone reconstruction from alpha carbons using Gaussian mixture models. Journal of computational chemisty, 34(22):1881-9.
2011	Gardner PP, Daub J, Tate J, **Moore BL** et al. Rfam: Wikipedia, clans and the "decimal" release. Nucleic acids research, 39(S1):D141-5.

Technical skills

R
Statistics
LaTeX
Git / Mercurial
UNIX
Python
Machine learning
Bash
Emacs
Inkscape
Data visualisation
Mediawiki
Grid computing (SGE / PBS)
HTML and CSS
Javascript

Projects

blog	I author a data science blog at blm.io where I apply R and Python to open datasets and write-up the results. My posts have been featured by sites including FiveThirtyEight, BuzzFeed, AVclub, io9 and more,

and also led to being an invited blogger at the Huffington Post. My original wordpress blog (benjaminlmoore.wordpress.com) has received around 150,000 total views from 180 countries.

EdinbR

I co-founded a usergroup for the R programming language in Edinburgh called EdinbR. I help to organise our monthly meetings and built our website: edinbr.org. Our meetings attract 30-50 statisticians, data scientists and developers for talks and discussion about the R language and its applications. We're sponsored by Revolution Analytics and have an organisational github account at github.com/EdinbR.

datarea

I entered Imperial College's Summer Data Challenge competition, where entrants analysed a given dataset and then proposed a startup idea based on their results. I developed a modelling technique to select housing areas for investment and was awarded third place: £2,000 and startup support from Imperial Create Lab. My entry can be seen at blm.io/datarea and the code is shared on my github account.

Awards

MRC Capacity building scholarship (fees + enhanced stipend) for my PhD
MRC Full postgraduate scholarship (fees + stipend) for MSc
Individual engagement grant from the Wikimedia Foundation to attend ISMB 2014
ISCB computational biology Wikipedia competition: second place prizewinner
Summer data challenge: third place prizewinner

Placements

2010–11   **Wellcome Trust Sanger Institute** (Cambridge, UK) Worked for two summers on the Rfam database (rfam.xfam.org) in the Bateman group

Links

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W Ben Moore
📝 blmoore
𝒈 scholar

References

Available on request.