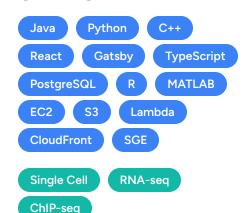




github.com/antonybholmes

SKILLS



EDUCATION

Ph.D Mathematical Biology University of Warwick, UK

B.Sc Computer Science

University of Warwick, UK First-class honours

AWARDS

SIWN Best Paper Award Leipzig | 2009

ANTONY HOLMES

Data Scientist / Software Engineer

Data scientist and full stack software developer with 8 years experience developing open source software and applications for cancer genetics research. Experienced in the full software development life-cycle from requirement definition, prototyping, design, interface implementation, and maintenance. Excellent written and oral communication skills demonstrated by 30 publications.

EXPERIENCE

Senior Bioinformatics Developer

Columbia University | 2015 - Present

Migrated core genomic applications onto AWS cloud infrastructure using **EC2**, **Docker**, **S3** reducing costs by **90%**.

Created departmental web site using **Gatsby+Typescript** to ease deployment and updates to reduce costs by **80%**.

Associate Research Scientist

Columbia University | 2012 - 2015

Developed data pipelines using **Python**, and **R** to analyze RNA-seq, Chip-seq, and single cell genomic data and reduce analysis time from days/weeks to **hours**.

Published over **25** articles on B-cell development and cancer genetics in high impact journals, including Nature, Cell, Blood, PNAS, and the New England Journal of Medicine.

Post Doctoral Research Scientist

Columbia University | 2009 - 2012

Administrator of research version of the New York Presbyterian Hospital electronic health records (EHR) database for data mining.

Studied the predictive power of hospital records for discovering novel relationships between rare diseases and co-morbidities resulting in three publications.

VOLUNTEERING

Tax Team Leader

New York Cares | 2017 - Present

Certified IRS tax team leader managing small teams of volunteers to help New Yorkers file federal and state tax returns for free.

Work with clients one-on-one to understand their tax situation.

Help low income families save \$100,000 in fees per year.

Super-enhancer hypermutation alters oncogene expression in B cell lymphoma
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7 MEF2B Instructs Germinal Center Development and Acts as an Oncogene in B Cell Lymphomagenesis

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Fabbri G, **Holmes AB**, Viganotti M, Scuoppo C, Belver L, Herranz D, Yan XJ, Kieso Y, Rossi D, Gaidano G, Chiorazzi N, Ferrando AA, Dalla-Favera R

Proceedings of the National Academy of Sciences. 2017.

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Zhang J, Vlasevska S, Wells VA, Nataraj S, **Holmes AB**, Duval R, Meyer SN, Mo T, Basso K, Brindle PK, Hussein S, Dalla-Favera R, Pasqualucci L

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Spina V, Khiabanian H, Messina M, Monti S, Cascione L, Bruscaggin A, Spaccarotella E, **Holmes AB**, Arcaini L, Lucioni M, Tabbo F, Zairis S, Diop F, Cerri M, Chiaretti S, Marasca R, Ponzoni M, Deaglio S, Ramponi A, Tiacci E, Pasqualucci L, Paulli M, Falini B, Inghirami G, Bertoni F, Foa R, Rabadan R, Gaidano G, Rossi D Blood. 2016.

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Fabbri G, Khiabanian H, **Holmes AB**, Wang J, Messina M, Mullighan CG, Pasqualucci L, Rabadan R, Dalla-Favera R The Journal of experimental medicine. 2013.

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REFERENCES

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