Rohit Farmer

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Professional Summary

Self-motivated and a team player with around 10 years of experience in computational biology research, resulting in several collaborations and more than 15 peer-reviewed research publications. Google Scholar h-index 8, i10-index 7. Complete list upon request.

Employments

Computational Biologist, *National Institutes of Health* .....2019 – present
Conducting machine learning and statistical analysis of single-cell data on various platforms at the Center for Human Immunology.

Postdoctoral Research Associate, *Washington University in St. Louis* ..... 2018 – 2019
Built deep learning predictive models for drug metabolism and toxicity.

Assistant Professor, *Sam Higginbottom University of Agri., Tech. & Sci.* ..... 2008-'11, '15-'18
Taught undergraduate and postgraduate courses in the bioinformatics domain. Mentored more than 10 dissertations. Produced students that are now industry leaders and seasoned academics.

Education

Ph.D. Biosciences, *University of Birmingham* 2011-2015
Discovered the fundamental structural and functional relationship of proteins involved in polyketide synthase pathways resulting in 4 research publications including one in *Nature Chemical Biology.* Won travel funding to attend several conferences around the globe.

M.Tech. Bioinformatics, *Sam Higginbottom Institute of Agri., Tech., Sci.* 2008-2010
Awarded silver medal and class rank 1. Graduated with the 1st division with honours. Carried out a dissertation on statistical analysis of differential gene expression due to epigenetic changes.

B.Tech. Biotechnology, *Allahabad Agricultural Institute* 2004-2008
Graduated with the 1st division with honours. Final semester project yield to 1 publication.

Skills

Computational Biology	Molecular structure prediction, molecular docking, molecular dynamics simulation, and sequence analysis.
Experimental Biology	PCR, Gibson assembly, restriction digestion, plasmid transformation, microbiology techniques, HPLC amongst others.
Programming Languages	Python, Perl, C++, R, LaTeX, HTML, CSS, and Java Script.
Data Science and ML Tools	Pandas, SciPy, NumPy, Matplotlib, Seaborn, Plotly, Scikit Learn, Keras, and TensorFlow.
Database & containers	SQLite, and Neo4J. Singularity, and Docker.
Operating Systems	Linux, MS Windows, and Mac OS X.