Curriculum Vitae

Dr. Manjusha Chintalapati

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Summary

As a computational scientist, I have more than 12 years of experience in biological data science. My major research focus has been on big data analysis of genomic datasets and quantitative biology. I have implemented methods for data processing, analysis, and visualization; deployed and managed workflows in HPC environments; developed bioinformatics tools and efficiently applied statistical methodology for appropriate scientific inference on multiple projects. I have led and developed projects across interdisciplinary teams including computer scientists, statisticians, and biologists; and have effectively presented my research to technical and non-technical audiences alike. I have been a flexible team player with experience working with teams across nations including India, Germany, and the US. I believe in scientific integrity and reproducible science and advocate for open communication through collaborative science.

Work experience and Education

Postdoctoral researcher *2019-Present*
University of California, Berkeley
Mentor: Prof. Priya Moorjani

Doctorate (PhD in Computer Science) *2014-2018*
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
Advisors: Prof. Peter Stadler (Universität Leipzig, Germany) and Dr. Kay Prüfer (MPI-EVA)

Software programmer *2012-2014*
Tata Consultancy Services
Gachibowli, Hyderabad, India

Master of Technology in Bioinformatics *2010-2012*
University of Hyderabad, Telangana, India
GPA: 9.73

Bachelor of Technology in Biotechnology *2006-2010*
Andhra University
Percentage: 90%

Technical skills

Programming languages: Bash, R, Perl, Python, C, C++

Operating systems: Linux, Mac OS, Windows

Technical presentations

Talk at Population, Evolutionary and Quantitative Genetics (PEQG) (2022)
Best poster award at Center for Computational Biology retreat, UC Berkeley (2021 and 2022)
Talk at the Human Evolution conference at Wellcome Genome Campus, Hinxton, UK (2019)
Poster at Bay Area Populations genetics meeting, UC Berkeley, USA (2019)
Best talk award at Center for Computational Biology retreat, UC Berkeley, USA (2019)
Talk at Bay Area Populations genetics meeting, Stanford, USA (2019)
Talk at the Genome Informatics Cold Spring Harbor Laboratories, New York, USA (2017)

Professional achievements

Topper of the cohort in Masters in Bioinformatics at the University of Hyderabad (2010-12)
GATE (Graduate Aptitude Test in Engineering) Fellowship awardee (2010-12)
Summer research fellowship (**SRFP**) from the Indian Academy of Sciences (2009-10)
Gold medalist for the best academic performance for Bachelor's in Biotechnology (2006-10)

Selected Publications

Wei Zhao,† Jennifer A. Smith,† Yi Zhe Wang, **Manjusha Chintalapati**, …, Sharon L. R. Kardia (2023). Polygenic risk scores for Alzheimer's disease and general cognitive function are associated with measures of cognition in older South Asians from LASI-DAD. ***Journal of Gerontology: Biological Sciences.*** doi.org/10.1093/gerona/glad057

Chintalapati Manjusha, Nick Patterson and Priya Moorjani (2022) The spatiotemporal patterns of major human admixture events during the European Holocene. ***Elife***. doi.org/10.7554/eLife.77625

Chintalapati Manjusha and Moorjani Priya (2020). Evolution of the Mutation rate across primates. ***Current Opinion in Genetics & Development***. doi.org/10.1016/j.gde.2020.05.028

Stephan Riesenberg**, Manjusha Chintalapati**,…, Svante Pääbo (2019) Simultaneous precise editing of multiple genes in human cells. ***Nucleic Acids Res***. doi.org/10.1093/nar/gkz669

Kay Prüfer, Cesare De Filippo,…, **Manjusha Chintalapati**,..., Svante Pääbo. (2017). "A high-coverage Neandertal genome from Vindija Cave in Croatia". ***Science***. doi.org/10.1126/Science.Aao1887

Chintalapati, Manjusha, Michael Dannemann, and Kay Prüfer. (2017). "Using the Neandertal Genome to Study the Evolution of Small Insertions and Deletions in Modern Humans." ***BMC Evolutionary Biology***. doi.org/10.1186/s12862-017-1018-8