Uma M. Vangala (Mahesh Vangala) Boston, MA. Ph. 443-326-1957

vangalamaheshh@gmail.com Website: mvangala.com

OBJECTIVE

To work on challenging interdisciplinary projects in the field of NextGen Research, with an opportunity to prove and enhance my skill sets.

SUMMARY OF QUALIFICATONS

Computational: Cloud Deployment (AWS EC2, Google Compute Engine, Google Container Engine), Full stack web development (MongoDB, NodeJs, AngularJS, Bootstrap), Parallel Programming, Informatics Pipeline Development, Data Visualization Using R.

Bioinformatics: NGS data analysis, RNASeq pipeline development and analysis, CRISPR analysis, Google Genomics Framework, Metagenomics and Metatranscriptomics data analysis, Microbial Genomics data analysis.

Websites built: http://mvangala.com, http://mbcf.dfci.harvard.edu

EMPI	$\Omega V V$	ALC: NOT
r/vi e i	AIYN	

Dana-Farber Cancer Institute Bioinformatics Analyst	June, 16, 2014 - present
Vermont Genetics Network Bioinformatics Research Associate	May, 2012 – June, 13, 2014
Institute for Genome Sciences, Univ. of MD School of Medicine Bioinformatics Software Engineer	September, 2010 – April, 2012
Institute for Genome Sciences, Univ. of MD School of Medicine Bioinformatics Intern	June, 2010 – August, 2010
Virginia Commonwealth University Graduate Teaching Assistant	August, 2009 – May, 2010
S.S.N College, Ongole, India	June, 2007 – May, 2008

EDUCATION

Lecturer

Center for the study of Biological Complexity, Virginia Commonwealth University M.S in Bioinformatics (Genomics track)	2010
Univeristy of Madras, Chennai, India M.Sc in Bioinformatics	2007
Osmania University, Hyderabad, India B.Sc in Biotechnology	2004

PUBLICATIONS

John Stanton-Geddes, Andrew Nguyen, Lacy Chick, James Vincent, Mahesh Vangala , Robert R. Dunn, Aaron M.
Ellison, Nathan J. Sanders, Nicholas J. Gotelli and Sara Helms Cahan. Thermal reactionomes reveal divergent re-
sponses to thermal extremes in warm and cool-climate ant species, BMC Genomics. 2016

ſ	Angiuoli SV, Matalka M, Gussman G, Galens K, Vangala M, Riley DR, Arze C, White JR, White O and Fricke
	WF. CloVR: A virtual machine for automated and portable sequence analysis from the desktop using cloud
	computing. BMC Bioinformatics. 2011 Aug;12:356.

Γ	White JR, Arze C, Matalka M, The CloVR Team , Angiuoli SV & Fricke WF. CloVR-Metagenomics: Functional and taxonomic microbial community characterization from metagenomic whole-genome shotgun (WGS) sequences – standard operating procedure, version 1.0. <i>Nature Precedings</i> . 05 April 2011.
Γ	White JR, Arze C, Matalka M, The CloVR Team , Angiuoli SV & Fricke WF. CloVR-16S: Phylogenetic microbial community composition analysis based on 16S ribosomal RNA amplicon sequencing – standard operating procedure, version 1.0. <i>Nature Precedings</i> . 05 April 2011.
	Galens K, White JR, Arze C, Matalka M, Gwinn MG, The CloVR Team , Angiuoli SV & Fricke WF. CloVR-Microbe: Assembly, gene finding and functional annotation of raw sequence data from single microbial genome projects – standard operating procedure, version 1.0. <i>Nature Precedings</i> . 05 April 2011.
PRESI	ENTATIONS
ſ	"A Metagenomic Study Of The Bioremediation Potential Of Sediment Microbial Communities In An Urban Estuary." IDeA Networks of Biomedical Research Excellence, University of Delaware, Newark, DE, August 2013.
Γ	"Community Resource Solutions to Analyze Large Genomic Datasets." Association of Bio molecular Resource Facilities conference, Palm Springs, CA, March 2013.
ſ	"Bioinformatics Project Management: Integrated Workflows, Project Tracking, and User Results." Association of Bio molecular Resource Facilities conference, Palm Springs, CA, March 2013.
ſ	"Vermont Genetics Network Bioinformatics Core Facility." Association of Bio molecular Resource Facilities conference, Palm Springs, CA, March 2013.
ſ	"Vermont Genetics Network Bioinformatics Core Facility." Northeast Regional Life Sciences Core Directors Meeting, Mountain View Grand Resort, Whitefield, New Hampshire, October, 2012.
COME	PUTATIONAL SKILLS
 	SYSTEMS – Unix/Linux, Mac, Windows. LANGUAGES – Bash shell, Perl, Python, R, MEAN application stack (web-development). RELATIONAL DATABASES – MySQL, Normalization, E/R Diagram, Database theory. GRAPH DATABASES – Neo4j PARALLEL PROGRAMMING – Snakemake, CloVR, Ergatis CLOUD COMPUTING – Docker, AWS
LAB S	KILLS
] [[PCR DNA cloning Gel electrophoresis Cell culturing.