

ROHIT GUPTA

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EDUCATION	<p>University of California, Merced (2013–Present), <i>Master of Sciences , Quantitative Systems Biology , 3.8/4</i></p> <p>Vellore Institute of Technology (2008–2012), <i>Bachelor of Technology, Bioinformatics , 3.67/4</i> Thesis - " Automated construction and analysis of polyunsaturated fatty acid autoxidation reaction network using rule based pattern matching algorithm in Mathematica"</p> <p>University of Coimbra, Portugal (January–June 2012), <i>Bachelors' Thesis Research Project, Molecular Systems Biology Group</i></p>
EMPLOYMENT	<p>Junior Specialist , Filipp Lab December 2012–July 2013 School of Natural Sciences, University of California, Merced Project - Analysing <i>NGS (RNASeq)</i> and deep sequencing data (<i>BAM</i>) obtained from <i>The Cancer Genome Atlas (TCGA)</i> and <i>CGHub</i> database. The project aimed at retrieval, management and analysis of sequencing data to elucidate the role, scope and extent of Pyruvate Kinase gene (<i>PKM2</i>) as a hallmark of cancer progression.</p> <p>Junior Specialist , Savageau Lab September 2012–December 2012 Department of Biomedical Engineering, University of California, Davis Project - Statistical Modelling and mathematical verification of Restriction-Modification systems in <i>E.coli</i>. The project aimed to construct a working mathematical model using RNASeq expression data from PvuII gene expression.</p> <p>X-Code Life Sciences; Research Intern Summer 2011 Project - Analysing the oncogenic effects of germline mutations (SNP) in various tumorigenic genes.</p>
RELEVANT SKILLS	<ul style="list-style-type: none">• Programming Languages - R, Python ,SQL and BASH• Bioinformatics tools - GATK, GROMACS, Galaxy, Tuxedo Suite, InVEx, Mutect, Paradigm• Technologies - Linux Administration, Database Management Systems (Oracle 9i, SQLite)
PROJECTS	List of ongoing and completed projects
ACADEMIC APPOINTMENT	<ul style="list-style-type: none">• Reviewer(AdHoc)–Journal of Cell Biology and Genetics.(<i>JCBG-03.08.14-0037</i>)• Lab Instructor BIO1 (Introduction to Biology- Lower Division) - Spring 2014 semester.• Teaching Assistant BIO175 (Biostatistics - Upper Division) - Spring 2015 semester.• Graduate Student Researcher, Filipp Lab - Fall 2013, Fall 2014.
PUBLICATIONS	List of Publications, Conference Posters and Oral Presentations
FELLOWSHIPS, HONORS, AND AWARDS	<ul style="list-style-type: none">• QSB USAP Summer Research Fellowship, UC Merced (Summer 2015)• QSB Travel Awards, UC Merced (Fall 2015)• UC Global Health Day Travel fellowship and Registration waiver (2015)• Semester Abroad Program (SAP) scholarship for undergraduate thesis (2012)