

DHATRI BADRI

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EDUCATION

Boston University, Graduate School of Arts and Sciences MS Bioinformatics	Boston, MA August 2023
George Washington University, College of Arts and Sciences B.S. Biological Sciences, Minor in Bioinformatics and STEM Teaching <ul style="list-style-type: none">Concentration in Cellular and Molecular Biology	Washington, DC May 2022
Republic Polytechnic, School of Applied Science Diploma in Biomedical Science <ul style="list-style-type: none">Concentration in Biomedical Research	Singapore May 2018
Paya Lebar Methodist Girls' School (Secondary) GCE 'O' Level	Singapore December 2014

EXPERIENCE

Merck Darmstadt/MilliporeSigma Associate Scientist I <ul style="list-style-type: none">Collaborated with company counterparts in Southeast Asia in the ordering and supply management in the labOversaw product and supply levels to anticipate inventory problems and shortagesManaged inventory tracking system to record deliveries, shipment and stock levels	Rockville, Maryland July 2021 - May 2022
Computational Biology Institute, Milken School (GW) Research Assistant <ul style="list-style-type: none">Manipulated Geneious software to perform de novo assembly and multiple sequence alignment of forward and reverse sequences of cytochrome oxidase fragmentsConstructed and estimated phylogenetic trees using maximum likelihood and bayesian analysisAided in creating R and python scripts to analyze nucleic acid sequencesExamined metagenomic and metataxonomic microbiome datasets using R and bioinformatics softwarePreparation of NGS samples and sequencing experience with MiSeq and NextSeq equipment	Washington, DC September 2019 - May 2022
Milken Institute of Public Health Masters Program (GW) Undergraduate Teacher's Assistant for Research Analytics <ul style="list-style-type: none">Guided students in developing R scripts to examine large patient data by applying statistical analysesLed office hours outside of lecture to enable students to ask for assistance on homework assignmentsDesigned grading rubrics to assist professor in grading problem sets and labs	Washington, DC September 2020 - December 2020
Keck Graduate Institute Undergraduate Research Assistant <ul style="list-style-type: none">Identified and targeted potential epitope sites on the COVID-19 S protein using computational algorithmsSpearheaded the mining of computational data and gave weekly presentations	Claremont, California May 2020 - July 2020
The George Washington University Research Intern <ul style="list-style-type: none">Manipulated nucleic acid sequences using command line for genetic expression profilingPerformed basic genetics lab work such as knocking out and distinguishing the sex of drosophilaAnalyzed and interpreted data to understand how sperm competition works in drosophila	Washington, DC May 2019 - August 2019
Agency for Science, Technology and Research Research Assistant <ul style="list-style-type: none">Developed and updated laboratory protocol with respect to restriction digestion and cloning of yeast vector, Pichia pastoris, and Bacillus coagulans for the expression of proteinPlan and conduct basic wet lab research or diagnostic tests such as DNA and RNA extraction, polymerase chain reaction analysis and gel electrophoresisManaged the preparation of media and agar plates required for the inoculation of bacteria	Singapore March 2017 - November 2017
Aljunied Tung Ling Student Day Care Academic tutor <ul style="list-style-type: none">Led tutoring of students in grades 6-8 and in small groups for Science and MathDesigned day to day activities such as developing lesson plans and planning workshops for grades 4-6	Singapore November 2014 - February 2015

PUBLICATIONS

Pérez-Losada M, Narayanan DB, Kolbe AR, Ramos-Tapia I, Castro-Nallar E, Crandall KA, Domínguez J. Comparative Analysis of Metagenomics and Metataxonomics for the Characterization of Vermicompost Microbiomes. *Front Microbiol.* 2022 May 10;13:854423. doi: 10.3389/fmicb.2022.854423. PMID: 35620097; PMCID: PMC9127802.

Dhatri Badri Narayanan. "Inclusive STEM: Transforming Disciplinary Writing Instruction for a Socially Just Future. Student Impressions of a Writing Intensive Course on the History and Philosophy of Math and Science" (Submitted)

Badri, D (2019). Time to put women back in STEM. *George Washington Undergraduate Review*, 4, 123-126.

ACTIVITIES

Volunteered for NPS and food banks around Washington, DC through community service sorority Epsilon Sigma Alpha (ESA)

Performed sequence manipulation on genes and plasmids as a research team member at International Genetically Engineered Machine (iGEM)

Wrote articles about scientific issues and military as a scope writer and edited student papers as part of editorial team at GW Undergraduate Review (GWUR)

TECHNICAL SKILLS

- Languages: Java, Python, HTML, R
- Applications: MicrobiomeAnalyst, iTOL
- Database Systems: GenBank/NCBI, Swiss-Prot
- Software: Geneious, Samtools, SnapGene, Chimera, GitHub
- Operating Systems: OS X, Linux
- Bioinformatics programs: RaxML, MAFFT, BEAST
- Other programs: Microsoft Office Suite (Word, PowerPoint and Excel), GSuite (Google Docs, Google Sheets, Google Slides and Google Forms), Slack, Trello, Zoom

CONFERENCES

- GW Research Days 2019: showcase how DNA barcoding of crayfish led to the discovery of a new species