AMEEK BHALLA

💼 EXPERIENCE (INDUSTRY)

Present | 2020

Cureus Journal of Medical Science, Springer Nature
Statistical Editor (Medical Science)
- Evaluated the experimental design and statistics of more than 700 manuscripts for the medical journal Cureus

2020 | 2017

Editage Scientific Editing
Subject matter expert (Molecular Biology)
- Revised the text and data visuals of manuscripts to enhance their acceptance by top-tier journals

💼 EXPERIENCE (ACADEMIA)

Present | 2022

Institute for Systems Biology, Seattle
Postdoctoral Fellow (Computational Genomics)
- Analysed single-cell RNA sequencing data from gastric cancer, Lyme, and TB patients to identify cell-specific biomarkers

2022 | 2015

Institute of Genomics and Integrative Biology, New Delhi
Graduate Research Assistant (Computational Genomics)
- Designed quantitative genetic experiments to generate big data (896,000 data points) for inferring the heritability of metabolic traits
- Implemented statistical techniques for handling non-independence of data, resulting in the publication of three research articles

2015 | 2012

Lab Manager (Diabetes Genetics)
- Operationalized a government project (CSIR, India) by managing procurement, standardizing protocols, and training new colleagues

2012 | 2007

Indian Institute of Science, Bangalore
Research Associate (Alzheimer Genetics)
- Devised classical-conditioning assays to evaluate the effect of candidate genes of Alzheimer's disease on long-term memory in Drosophila

🎓 EDUCATION

2022

Institute of Genomics and Integrative Biology, New Delhi
PhD, Computational Biology

2007

University of Delhi
BSc (Hons), Double major in Biomedical Sciences & Biotechnology

📖 PEER-REVIEWED PUBLICATIONS

2023

Phenotypic cross-species conservation and cross-generation directionality switching in epigenetic inheritance
Bhalla A, and Sharma A; Molecular Ecology, Epub

2020

Paternal inheritance of diet induced metabolic traits correlates with germline regulation of diet induced coding gene expression
Teltumbade M, **Bhalla A**, and Sharma A; Genomics, 112:567-573

2019

Transgenerational inheritance of cold temperature response in Drosophila
Karunakar P, **Bhalla A**, Sharma A; FEBS Letters, 593:594-600

CONTACT

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DATA SCIENCE SKILLS

Languages
R,
Bash,
Markdown

Machine Learning
regression,
GLMM,
random forest

Resampling
cross validation,
bootstrapping,
bagging

Clustering
k-means,
hierarchical

Dimensionality reduction
PCA,
tSNE,
UMAP

RESEARCH SKILLS

Epidemology
meta-analyses,
RCTs,
case-control studies,
longitudinal studies

Genomics
RNA sequencing,
scRNA-seq

Quantitative Genetics
GWAS,
twin studies

Population Genetics
phylogenetic trees,
selection tests

Written in ℝ language
Source code on GitHub
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