

AMEEK BHALLA

EXPERIENCE (ACADEMIA)

- Present
|
2022
- **Institute for Systems Biology, Seattle**
Postdoctoral Fellow (Computational Biology)
 - Integrated multi-omic data from patients to identify biomarkers for Lyme disease, gastric cancer, and TB
- 2022
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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
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2012
- **Lab Manager (Diabetes Genetics)**
 - Operationalized a government project (CSIR, India) by managing procurement, standardizing protocols, and training new colleagues
- 2012
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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*

EXPERIENCE (INDUSTRY)

- 2022
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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
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2017
- **Editage Scientific Editing**
Subject matter expert (Molecular Biology)
 - Revised the plots and data visuals of manuscripts to enhance their acceptance by top-tier journals

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. *Mol Ecol*. 2023 Jul.
- 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*. 2020 Jan.
- 2019
- [Transgenerational inheritance of cold temperature response in *Drosophila*](#)
Karunakar P, **Bhalla A**, Sharma A. *FEBS Lett*. 2019 Mar.

CONTACT

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🌐 ameekbhalla.netlify.app

DATA SCIENCE SKILLS

Languages & Tools

R,
Linux/Bash,
Git

ML & Biostatistics

GLMs, LASSO,
random forest

Resampling

cross validation,
Monte Carlo

Clustering

k-means,
hierarchical,
community detection

Dimensionality reduction

tSNE,
UMAP,
SEM

RESEARCH SKILLS

Multi-omics

scRNA-seq,
metabolomics,
proteomics (Olink)

Epidemiology

meta-analyses,
case-control studies,
longitudinal studies

Quantitative Genetics

GWAS,
twin studies

Population Genetics

phylogenetic trees,
selection tests

Written in  language
[Source code on GitHub](#)
Last updated 2025-03-20