

AMEEK BHALLA

EXPERIENCE (INDUSTRY)

- Present
|
2020
- **Cureus Journal of Medical Science (Springer Nature)**
Statistical Editor (Medical Science)
 - Evaluated the study design and statistics of more than 300 manuscripts for the medical journal Cureus as part of an international team
- 2020
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2017
- **Cactus Communications Pvt. Ltd.**
Editor (Molecular Biology)
 - Customized manuscripts written by authors from more than 10 developing countries to enhance their acceptance by top-tier journals

EXPERIENCE (ACADEMIA)

- Present
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2022
- **Institute for Systems Biology, Seattle**
Postdoctoral Fellow (Computational Genomics)
 - Analysed single-cell RNA sequencing data from gastric cancer, Lyme, and TB samples to identify cell-specific biomarkers
- 2022
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2019
- **Institute of Genomics and Integrative Biology, New Delhi**
Senior Research Fellow (Computational Genomics)
 - Designed, executed, and analyzed quantitative genetic experiments, containing 896,000 data points, to infer the heritability of metabolic traits
- 2019
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2015
- **Graduate Research Fellow (Computational Genomics)**
 - Implemented mixed models to handle nested data, increasing statistical power by 1000%
 - Invented techniques for mass production and processing of biological replicates, resulting in the publication of two research articles
- 2015
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2012
- **Research Project Manager (Diabetes Genetics)**
 - Operationalized a government project (CSIR, India) by managing procurement, troubleshooting protocols, and training five new colleagues
 - Evaluated 50 candidate genes for diabetes using 200 transgenic constructs in *Drosophila*


EDUCATION

- **Institute of Genomics and Integrative Biology, New Delhi**
PhD, Computational Biology/Genomics
- **University of Delhi**
BSc (Hons), Biomedical Sciences

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

✉ bhalla.ameek@gmail.com
in [linkedin.com/in/ameekbhalla](https://www.linkedin.com/in/ameekbhalla)
 ameekbhalla.netlify.app

DATA SCIENCE SKILLS

Languages

R,
Markdown

Regression

GLM,
GLMM

Decision trees

random forest,
bagging

Resampling

cross validation,
bootstrapping

Clustering

k-means,
hierarchical

Dimensionality reduction

PCA,
MDS

RESEARCH SKILLS

Study design

meta-analyses,
RCTs,
case-control studies,
cohort studies,
repeated measures,
fractional factorials

Genomics

RNA sequencing,
scRNA-seq

Molecular biology

cloning,
qPCR,
western blotting

Written in  language
[Source code on GitHub](#)
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