

# AMEEK BHALLA

## EXPERIENCE (INDUSTRY)

- Present  
|  
2020
- **Cureus Journal of Medical Science**  
*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  
|  
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  
|  
2019
- **Institute of Genomics and Integrative Biology**  
*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*
- 2012  
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2007
- **Indian Institute of Science**  
*Research Assistant (Alzheimer Genetics)*
    - Pioneered a low-cost technique for measuring long-term memory of classical conditioning in *Drosophila*

## EDUCATION

- 2022  
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2015
- **Institute of Genomics and Integrative Biology**  
*PhD, Computational Biology/Genomics*
- 2007  
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2006
- **University of Delhi**  
*Postgraduate Diploma, Biochemical Technology*
- 2006  
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2003
- **University of Delhi**  
*BSc (Hons), Biomedical Sciences*

## PEER-REVIEWED PUBLICATIONS

- 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,  
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,  
RNAi

### Molecular biology

cloning,  
qPCR,  
western blotting

### *Drosophila* genetics

GAL4-UAS system,  
genetic crossing

Written in  language  
[Source code on GitHub](#)  
Last updated 2022-02-03