









# AMEEK BHALLA

## EXPERIENCE

- Present | 2015
- **Doctoral Researcher**  
Institute of Genomics & Integrative Biology  New Delhi, India
    - Designed quantitative genetic experiments and statistical models to infer the heritability of complex disorders from 480,000 data points
- Present | 2020
- **Medical Science Editor**  
Cureus Inc.  Palo Alto (remote)
    - Critiqued and improved the language, data visuals, and statistical interpretability of over 100 manuscripts for the medical journal Cureus
- 2020 | 2017
- **Molecular Biology Editor**  
Cactus Communications Pvt. Ltd.  Mumbai (remote)
    - Boosted the readability of 300 manuscripts, from more than 10 developing countries, enhancing their acceptance by life science journals
- 2017 | 2012
- **Graduate Research Assistant**  
Institute of Genomics & Integrative Biology  New Delhi, India
    - Implemented models to handle correlated data and scaled-up collection of biological replicates, increasing statistical power by 1000%
    - Evaluated the function of 50 candidate genes for diabetes with 200 transgenic constructs in *Drosophila* (CSIR-sponsored project)
- 2012 | 2007
- **Graduate Research Assistant**  
Indian Institute of Science  Bangalore, India
    - Designed classical-conditioning assays for automated assessment of long-term memory in *Drosophila*

## EDUCATION

- Present | 2015
- **Institute of Genomics & Integrative Biology**  
PhD candidate, Computational Biology/Genomics  New Delhi, India
- 2007 | 2006
- **University of Delhi**  
Postgraduate diploma, Biochemical Technology  New Delhi, India
- 2006 | 2003
- **University of Delhi**  
BSc (honors), Biomedical Sciences  New Delhi, India

## PEER-REVIEWED PUBLICATIONS

- 2020
- Teltumbade M, **Bhalla A**, and Sharma A; published in *Genomics*
- 2019
- Karunakar P, **Bhalla A**, and Sharma A; published in *FEBS Letters*

## 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

## LAB RESEARCH SKILLS

### Experimental design

fractional factorials,  
pseudoreplication,  
hypothesis tests

### Genomics

microarray, RNAi

### Molecular biology

cloning, qPCR,  
western blotting

### *Drosophila* genetics

GAL4-UAS system,  
genetic crossing

Written in  language  
Source code on [GitHub](#)  
2021-02-27