# AMEEK BHALLA

## 💼 EXPERIENCE

**Doctoral Researcher**
Institute of Genomics & Integrative Biology 📍 New Delhi, India
Present | 2015
- Designed quantitative genetic experiments and statistical models to infer the heritability of complex disorders, leading to data encompassing two treatment groups, three time points, four replicates, and 20000 genes

**Medical Science Editor**
Cureus Inc. 📍 Palo Alto (remote)
Present | 2020
- Critiqued and improved the language, data visuals, and statistical interpretability of 100 systematic meta-reviews, original research articles, and case reports for the medical journal Cureus to make them accessible to lay readers

**Molecular Biology Editor**
Cactus Communications Pvt. Ltd. 📍 Mumbai (remote)
2020 | 2017
- Boosted the readability of 300 academic manuscripts written by authors from more than 10 developing countries, enhancing their acceptance by life science journals

**Graduate Research Assistant**
Institute of Genomics & Integrative Biology 📍 New Delhi, India
2017 | 2012
- Implemented mixed-effects models to handle correlated data and scaled-up collection of biological replicates, leading to an increase in the sample size by 1000%
- Evaluated the function of 50 candidate genes for diabetes with 200 transgenic constructs in Drosophila (CSIR-sponsored project)

**Graduate Research Assistant**
Indian Institute of Science 📍 Bangalore, India
2012 | 2007
- Designed classical-conditioning assays for automated assessment of long-term memory in Drosophila

## 🎓 EDUCATION

**Institute of Genomics & Integrative Biology**
PhD candidate, Computational Biology/Genomics 📍 New Delhi, India
Present | 2015

**University of Delhi**
Postgraduate diploma, Biochemical Technology 📍 New Delhi, India
2007 | 2006

**University of Delhi**
BSc (honors), Biomedical Sciences 📍 New Delhi, India
2006 | 2003

## 📖 PEER-REVIEWED PUBLICATIONS

## CONTACT

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📞 +91 9811550934

## 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 ℝ language.*
*Source code on GitHub.*
*2021-01-17.*

2020 • Paternal inheritance of diet induced metabolic traits correlates with germline regulation of diet induced coding gene expression
Teltumbade M, **Bhalla A**, Sharma A. Genomics, 112(1):567-573.

2019 • Transgenerational inheritance of cold temperature response in Drosophila
Karunakar P, **Bhalla A**, Sharma A. FEBS Letters, 593(6):594-600.