









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

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**, Sharma A. Genomics, 112(1):567-573.

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.](#)
2021-02-28.

2019



[Transgenerational inheritance of cold temperature response in *Drosophila*](#)

Karunakar P, **Bhalla A**, Sharma A. FEBS Letters, 593(6):594-600.