

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
|
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 2022-12-15