

AMEEK BHALLA



EXPERIENCE

- Present
|
2017
- **Institute of Genomics and Integrative Biology**
Senior Research Fellow (Computational Genomics)
 - Designed, executed, and analyzed quantitative genetic experiments, containing 480,000 data points, to infer the heritability of metabolic traits
- 2017
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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*



EXPERIENCE (FREELANCE)

- Present
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2020
- **Cureus Inc.**
Content Editor (Medical Science)
Scored a 4.9/5 from authors for critiquing the statistics, data visuals, and semantics of 150 manuscripts, along with an international team
- 2020
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2017
- **Cactus Communications Pvt. Ltd.**
Language Editor (Molecular Biology)
 - Boosted the readability of 300 manuscripts from more than 10 developing countries, enhancing their acceptance by life science journals



EDUCATION

- 2021
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2015
- **Institute of Genomics and Integrative Biology**
PhD Candidate, 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*](#)
Karanakar P, **Bhalla A**, Sharma A; *FEBS Letters*, 593:594-600

CONTACT

- New Delhi, India
- ameekbhalla@gmail.com
- [linkedin.com/in/ameekbhalla](https://www.linkedin.com/in/ameekbhalla)
- github.com/ameekbhalla

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,
repeated measures,
meta-analyses

Genomics

microarray, RNAi

Molecular biology

cloning, qPCR,
western blotting

Drosophila genetics

GAL4-UAS system,
genetic crossing

Written in language
[Source code on GitHub](#)
Last updated 2021-03-10