

# Ameek Bhalla

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## Education

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<b>CSIR-Institute of Genomics and Integrative Biology, India</b> <i>PhD, Genomics</i>	<b>2015–Present</b>
<b>Punjab Technical University, India</b> <i>MSc, Biotechnology</i>	<b>2013</b>
<b>University of Delhi, India</b> <i>PG diploma, Biochemical Technology</i>	<b>2007</b>
<b>University of Delhi, India</b> <i>BSc (honors), Biomedical Sciences</i>	<b>2003–2006</b>

## Experience

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<b>CSIR-Institute of Genomics and Integrative Biology, India</b> <i>Doctoral Researcher</i> <ul style="list-style-type: none"><li>○ Analysis of high-dimensional data</li><li>○ Functional genomics</li></ul>	<b>2015–Present</b>
<b>Cureus Inc., USA (Remote)</b> <i>Content Editor</i> <ul style="list-style-type: none"><li>○ Editorial review of medical articles</li></ul>	<b>Present</b>
<b>Cactus Communications Pvt. Ltd., India (Remote)</b> <i>Language Editor</i> <ul style="list-style-type: none"><li>○ Academic editing for life-science journals</li></ul>	<b>2017–2020</b>
<b>CSIR-Institute of Genomics and Integrative Biology, India</b> <i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>○ Statistical inference for large-scale assays</li><li>○ Modeling diabetes in <i>Drosophila</i></li></ul>	<b>2012–2015</b>
<b>Indian Institute of Science, India</b> <i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>○ Expression of human genes in <i>Drosophila</i></li><li>○ Modeling Alzheimer's disease in <i>Drosophila</i></li></ul>	<b>2007–2007</b>

## Data Science Skills

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### Languages

*R, Markdown, Bash*

### Regression

*GLM, GLMM*

### Decision trees

*Random forest, bagging*

### Resampling

*Cross-validation, bootstrapping*

### Clustering

*Hierarchical, k-means*

### Dimensionality reduction

*PCA, MDS*

## Lab Research Skills

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### Experimental design

*Fractional factorials designs, pseudoreplication, hypothesis tests*

### Genomics

*Microarray, RNAi*

### Molecular Biology

*Cloning, qPCR, western blotting*

### Drosophila genetics

*GAL4-UAS system, genetic crossing*