

## EDUCATION

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### Indian Institute of Science

*PhD in Computational and Data Sciences*

Bangalore, India

*Oct 2020 – Present*

### National Institute of Technology

*Bachelor of Technology (Hons) in Mechanical Engineering*

Raipur, India

*July 2016 – July 2020*

## HONORS AND AWARDS

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- **Winner** National HPC Hackathon 2021. (Awarded AWS credits worth 10,000 USD)  
Organised by Intel India and AWS in association with Govt. of India.

## JOURNAL PUBLICATION

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- **JCB 2023**

Gap-Sensitive Co-Linear Chaining Algorithms for Acyclic Pangenome Graphs.

**Ghanshyam Chandra** and Chirag Jain. Journal of Computational Biology. (Invited paper, RECOMB'23 extended version)

## REFEREED CONFERENCE PUBLICATIONS

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- **RECOMB 2023**

Sequence to Graph Alignment Using Gap-Sensitive Co-linear Chaining.

**Ghanshyam Chandra** and Chirag Jain. International Conference on Research in Computational Molecular Biology. (acceptance rate: 20%) doi.org/10.1007/978-3-031-29119-7\_4

- **WABI 2023**

Co-linear Chaining on General Graphs.

Jyotshna Rajput, **Ghanshyam Chandra** and Chirag Jain. Workshop on Algorithms in Bioinformatics. (To appear in WABI 2023)

## TEACHING AND MENTORING

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- **Introduction to Scalable Systems 2022 (DS221)** Tutorials on Data Structure and Algorithms with C++.
- **Introduction to Scalable Systems 2021 (DS221)** Tutorials on Data Structure and Algorithms with C++.

## TALKS

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- **2023**

Sequence to Graph Alignment Using Gap-Sensitive Co-linear Chaining.  
RECOMB 2023, Istanbul, Turkey.

- **2023**

A Scalable Algorithm for Sequence to Graph Alignment.  
EECS Symposium 2023, IISc Bangalore, India.

## POSTER PRESENTATION

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- **RECOMB-Seq 2023**

Minichain: A New Method for Pangenome Graph Construction.

**Ghanshyam Chandra** and Chirag Jain. RECOMB Satellite Conference on Biological Sequence Analysis.  
RECOMB-Seq 2023, Istanbul, Turkey.

- **HiPC 2022**

Scaling Sequence to DAG Alignment With Parameterized Gap-Sensitive Co-linear Chaining Algorithms.  
**Ghanshyam Chandra** and Chirag Jain. IEEE International Conference on High Performance Computing, Data, and Analytics. HiPC 2022, Bangalore, India.

#### FELLOWSHIPS

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- **Intel Research Fellowship 2023-24**
- **Kotak IISc AI-ML Center Fellowship**
- **RECOMB 2023 Travel Fellowship**

#### REFERENCES

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- **Dr. Chirag Jain**, Computational and Data Sciences, Indian Institute of Science, Bangalore, India  
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