

# RAVI DHIMAN

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Uttar Pradesh, India

## EDUCATION

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**MS | *Cryptography, Networks, Statistical Modelling***

July 2017 – Dec. 2021

CGPA: 9.16/10

Discipline: Computer Science,

Advanced Technology Development Centre,

Indian Institute of Technology Kharagpur

West Bengal, India

**M.Sc. | *Mathematics***

July 2014 – June 2016

CGPA: 7.37/10

Department of Mathematics,

Indian Institute of Technology Kharagpur

West Bengal, India

**B.Sc.(Hons.) | *Mathematics***

Aug. 2011 – June 2014

Percentage: 83.46/100

Motilal Nehru College,

University of Delhi

New Delhi, India

## RESEARCH INTERESTS

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- **Cryptography**
- **Mathematics**

## WORK EXPERIENCE

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**Senior Research Assistant**

Dec. 2021 – Feb. 2022

R C Bose Centre for Cryptology and Security, Indian Statistical Institute Kolkata

- **Project Title:** Cryptanalysis of Some Standard Ciphers
- **Sponsored by:** NTRO, India
- **PI:** Prof. Mridul Nandi

**Junior Research Fellow**

May 2021 – Oct. 2021

SRIC, Indian Institute of Technology Kharagpur

- **Project Title:** Development of Multi-Party Computation Protocols as an Aid to Cloud Computing
- **Sponsored by:** Science and Engineering Research Board (SERB), India
- **PI:** Prof. Sourav Mukhopadhyay

**Junior Project Officer**

Apr. 2017 – Oct. 2018

SRIC, Indian Institute of Technology Kharagpur

- **Project Title:** An Indigenous Framework for Authenticity, Integrity and Non-Repudiation in Data Communication
- **Sponsored by:** Defence Research and Development Organisation (DRDO), India
- **PI:** Prof. Sudip Misra

## RESEARCH EXPERIENCE

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**MS Thesis | Controller Placement in SDN: Energy- and Mobility-aware perspectives** 2017 – 2021

**Supervisor: Prof. Sudip Misra, Joint Supervisor: Prof. Sourav Mukhopadhyay**

The controller placement is a fundamentally important problem in SDN. We studied the control placement problem in SDN and proposed energy-aware and mobility-aware scheme for the controller.

**M.Sc. Thesis | Quasi-conformal Mappings in Plane Domain** 2015 – 2016

**Supervisor: Dr. Vasudeva Rao Allu**

This work aims to find the solution of the well known problem of H. Grotzsch, i.e. is there a conformal mapping of a square onto a rectangle which maps vertices onto vertices? The answer is NO. We tried to find the most nearly conformal mapping of this kind.

## PUBLICATIONS

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- Ilora Maity, **Ravi Dhiman**, Sudip Misra, "MobiPlace: Mobility-Aware Controller Placement in Software-Defined Vehicular Networks", IEEE Transactions on Vehicular Technology, vol. 70, no. 1, pp. 957-966, Jan. 2021
- Ilora Maity, **Ravi Dhiman**, Sudip Misra, "EnPlace: Energy-Aware Network Partitioning for Controller Placement in SDN", IEEE Transactions on Green Communications and Networking (Under Review)

## AWARDS AND ACHIEVEMENTS

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- Qualified JEST (Joint Entrance Screening Test) in Theoretical Computer Science (2021)
- Qualified GATE (The Graduate Aptitude Test in Engineering) in Mathematics (2016)
- Recipient of Merit-cum-Means (MCM) Scholarship in M.Sc. provided by Department of Mathematics, IIT Kharagpur (2014-2016)
- Qualified JAM (Joint Admission Test for M.Sc.) in Mathematics (2014)
- Recipient of award for 1st rank in School level in Higher Secondary Examination (2010) and in Secondary Examination (2008)

## WORKSHOP ATTENDED

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**2nd Indo-UK Workshop on Internet of Things** March 2019  
Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur

## TEACHING EXPERIENCE

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**Teaching Assistant in Programming and Data Structure Theory** Autumn 2018  
Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur

**Home Tutor (12th Grade Students)** 2017-2020  
Mathematics

## PROFESSIONAL MEMBERSHIP

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**IEEE Student Member** Feb. 2018 – Jan. 2019  
Member ID: 94721189

## SKILLS

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**Languages:** English, Hindi

**Programming:** C, Python, Mathematica

**Document Creation:** Microsoft Office Suite, LaTeX

## REFERENCES

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**Dr. Sourav Mukhopadhyay**

Professor

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India

**Dr. Sudip Misra**

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## DECLARATION

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I hereby declare that the information mentioned above are true to the best of my knowledge.

Ravi Dhiman