

subhadeep ROY | INDIAN | MALE | 29 MAY 1995

Final Year MS Student at Seismic Tomography Laboratory, IISER Kolkata

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FIELDS OF INTEREST

Seismology | Inverse Theory | Geophysics

RESEARCH & WORK EXPERIENCE

Masters Thesis

Indian Institute of Science Education and Research, Kolkata

June 2018 - Present

Nadia, India

- **Guide:** Dr. Kajaljyoti Borah | [Homepage](#)
- **Project Title:** Love wave attenuation tomography of the Tarim Basin, Central Tibet & Bengal Basin
- **Description:** I am currently studying the L_gQ seismic attenuation variations across the aforementioned areas quantified by a dimensionless parameter called the Quality factor (Q_0) whose values correlate well with the intensity of regional tectonic activity in the crust

Field Work

Indian Institute of Science Education and Research, Kolkata

February 2018

Kalyani, India

- Soil quality analysis
- Performed Ground Resistivity Modelling using Schlumberger methodology for exploration of Subterranean waters in & around IISER Kolkata Main Campus

Field Work

Indian Institute of Science Education and Research, Kolkata

January 2018

Kalyani, India

- Water & Wastewater quality analysis
- Samples from all the stages of a Water Treatment Plant & nearby ponds was collected & analyzed for various water quality testing parameters

Field Work

Indian Institute of Science Education and Research, Kolkata

December 2016

Jharkhand, India

- The work was carried out at Galudih and Ghatshila areas of Jharkhand
- Identifying and interpreting structural geometry of deformed rocks in natural setting, giving us an understanding of the geological evolution of the area

Summer Research Intern

Tata Institute of Fundamental Research

May 2016 - June 2016

Mumbai, India

- Study of CMS experiment and Particle Physics; Top and Anti-Top Quark and its decay products | [Project Report](#)

Summer Research Intern

International Institute of Information Technology

May 2015 - June 2015

Hyderabad, India

- Study of Statistical Mechanics, Molecular Dynamics with analysis and determining single molecular Entropy of water | [Project Report](#)

SKILLS & TECHNIQUES

- **Operating Systems:** Windows, Linux
- **Programming Languages:** C, Python, Shell Scripting, AWK
- **Softwares & Tools:** Seismic Analysis Code (SAC), Generic Mapping Tools (GMT), GNUplot, LaTeX, Origin, Microsoft Office
- **Laboratory Instruments:** Brunton Compass, Petrographic Microscope, DDR-3 Schlumberger Resistivity Meter, Spectrophotometer, Oscilloscope

EDUCATION & TRAINING

Bachelor & Master of Science Dual Degree Programme (BS-MS)

Indian Institute of Science Education and Research (IISER)

August 2014 - May 2019 (exp.) Kolkata, India

- **Major:** [Earth Sciences](#) | **Cumulative GPA:** 8.39/10
Major GPA: 8.65/10 | **Departmental Rank:** 4
- I was selected to be a part of [IISER Kolkata](#) through the 'JEE-Advanced' channel in 2014 and am currently in the final year of my study

Higher Secondary Certificate (HSC)

Pace Junior Science College, Andheri

July 2011 - February 2013 Mumbai, India

- **Maharashtra State Board** of Secondary & Higher Secondary Education
- **Percentage:** 75.17 | **Subjects:** Physics, Chemistry, Mathematics & Statistics, English, Electrical Maintenance

Secondary School Certificate (SSC)

St. Lawrence High School, Borivali

July 2004 - March 2011 Mumbai, India

- **Maharashtra State Board** of Secondary & Higher Secondary Education
- **Percentage:** 91.82 | **Subjects:** Mathematics, Science & Technology, English, Marathi, Sanskrit, Social Sciences

STANDARDIZED TESTS

- GRE - Score: 310/340 | Analytical Writing Assessment: 3.5/6
- TOEFL - Score: 98/120

RELEVANT COURSES

Geochemistry | Inverse Theory | Seismology | Geophysics | Structural Geology | Isotope Geology | Mineralogy | Geotechnical Engineering | Environmental Geosciences | Petrology | Hydrology | Paleontology | Sedimentology | Real Analysis | Linear Algebra | Biostatistics | Biophysics | Thermal Physics | Economics

CONFERENCES & SYMPOSIUMS

European Geosciences Union (EGU)

📅 April 2019

📍 Vienna, Austria

- The EGU General Assembly 2019 brings together geoscientists from all over the world to one meeting covering all disciplines of the Earth, planetary, and space sciences
- Selected to give a [poster presentation](#) at the conference in the Seismology session | [Abstract](#)

Frontiers in Modern Biology (FIMB)

Indian Institute of Science Education and Research, Kolkata

📅 January 2018

📍 Nadia, India

- National symposium organized by the Department of Biological Sciences on the latest developments in the field of Biology

Advances in Modern Earth System Sciences (AMESS)

Indian Institute of Science Education and Research, Kolkata

📅 March 2017

📍 Nadia, India

- Was a part of the Symposium held at IISER - Kolkata interfacing Earth and Life Sciences on the latest developments in earth & biological sciences organized by the Department of Earth and Biological Sciences
- Student volunteer & member of the organizing committee

Global Initiative of Academic Networks (GIAN) Programme

Indian Institute of Science Education and Research, Kolkata

📅 November 2016

📍 Nadia, India

- Selected to participate in the 'Short Course on: Active Continental Tectonics' by Prof. James Jackson (FRS), University of Cambridge, U.K.

Vijyoshi National Science Camp

IISc Bangalore; KVPY; IISER Kolkata; INSPIRE

📅 November 2014

📍 Kolkata, India

- The aim of this camp is to provide a forum for interactions between bright young students and leading researchers in various branches of science and mathematics
- It had many thought provoking lectures by eminent scientists & researchers followed by a round of discussion at the end of each day's programme which served to motivate and inspire the participants by bringing them together, with the hope of making it their first step towards a career in research in the basic sciences and mathematics

EXTRA CURRICULARS

- Playing Chess, Lawn Tennis, Table Tennis, Badminton, Football | Skating, Swimming, Cycling, various Adventure Sports
- Reading Books & Scientific Journals | Gave many presentations on various research topics/papers, related to our coursework as well as in other academical meetings
- Debating, Drawing, Singing, Poetry | Playing the Electronic Keyboard & Harmonica
- Travelling, Photography, Experiencing different cultures
- Held the post of Treasurer of Photography Club (PIXEL) of IISER Kolkata
- Integral part of organizing 'BOTPRIX' event at 'INQUIVESTA', IISER Kolkata's Annual Science Fest

ACHIEVEMENTS & AWARDS

- Awarded the **Innovation in Science Pursuit for Inspired Research (INSPIRE) fellowship** from the Department of Science and Technology, Government of India (**August 2014 – Present**)
- **Winner:** Inter-Batch Men's Football (IISER Kolkata), 2017
- **Winner:** Intra-College Gaming Event (Asphalt 8) of IISER Kolkata, 2017
- Ranked in **94.34 percentile** (among the 1.5 lakh candidates who were eligible to appear) in the prestigious Joint Entrance Examination (JEE) Advanced (formerly known as IIT-JEE) 2014
- Ranked in **99.27 percentile** in Joint Entrance Examination (JEE) Mains (formerly known as AIEEE) 2014
- Ranked in **Top 40** in the Indian Institute of Technology (IIT) Architecture Aptitude Test 2014 & was offered admission at IIT Roorkee
- Successfully cleared '**A1 level**' German Speaking Course, 2014
- Received the **Scientific Inclination Award** by St. Xaviers' Group of Schools, Mumbai, 2011
- Received the **Best Speaker Award** by St. Xaviers' Group of Schools, Mumbai, 2011
- Distinction (**All India Rank 211**) in All India Open Mathematics Scholarship Examination, organized by Institute for Promotion of Mathematics, Pune, 2010
- **Merit** in Dr. Homi Bhabha Bal Vaidnyanik Competition, organized by The Mumbai Science Teachers' Association, 2010
- **School Level Gold Medalist** in National Science Olympiad (NSO), organized by Science Olympiad Foundation, New Delhi, 2009
- **Placed 4th** in Essay Competition under Project Financial Literacy Programme, organized by Reserve Bank of India, Mumbai Regional Office, 2009
- **All India Rank 2811** in National Level Science Talent Search Examination, conducted by Unified Council, Hyderabad, 2009
- **794 Olympiad Rank** in International Olympiad of Science, conducted by Society of Science Education, New Delhi, 2009
- **Successfully cleared** Intermediate Drawing Grade Examination, organized by Directorate of Art, Maharashtra State, Mumbai 2009
- Distinction (**All India Rank 904**) in Nationwide Interactive Maths Olympiad, organized by EduHeal Foundation, New Delhi, 2008
- Distinction (**International Rank 608**) in International Cyber Olympiad, conducted by EduHeal Foundation, New Delhi, 2008
- **Successfully cleared 1st** level 'Indian Classical Singing' Examination, 2007
- Successfully underwent **Patrol Leader training**, organized by The North Mumbai Suburban Bharat Scouts & Guides District Association, 2006
- **Time's Person of the Year**, by Time Magazine, 2006
"For seizing the reins of the global media, for founding and framing the new digital democracy, for working for nothing and beating the pros at their own game, Time's Person of the Year for 2006 is you"

LANGUAGES

- English | Hindi | Bengali | Marathi
- Basic German & Sanskrit

REFERENCES

- **Dr. Kajaljyoti Borah** | Department of Earth Sciences, IISER Kolkata
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- **Prof. Supriyo Mitra** | Department of Earth Sciences, IISER Kolkata
Email: supriyomitra@iiserkol.ac.in
- **Dr. Sayantan Sarkar** | Department of Earth Sciences, IISER Kolkata
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