

# Sreyam Sengupta

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## Personal and contact

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**DOB:** 07 September 1994  
**Nationality:** Indian

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## Education

2019 - present **Master student** at Institute of Science and Research Austria (ISTA), supervised by Gašper Tkačik and Édouard Hannezo.

2013 - 2018 **BS-MS in Physics**, Indian Institute of Science Education and Research Kolkata (IISER-K), Department of Physical Sciences; GPA 8.75 out of 10 (absolute scale).

2013 **ISC (12<sup>th</sup> grade board exam)**, Don Bosco School, Kolkata; 96.75% marks (top 1% among all students) in English, Mathematics, Physics and Computer Science.

2011 **ICSE (10<sup>th</sup> grade board exam)**, Don Bosco School, Kolkata; 93.2% marks in English, Computer Applications, Mathematics, Environmental Education and Science.

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## Current research projects

- Efficacy of active regulation vs passive bet-hedging in colonies of single-celled organisms in stochastically fluctuating environments.
  - Principles and biophysical mechanism of symmetry-breaking in stem cells making binary fate choices.
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## Previous research experience

2017 - 2018 **Master thesis** with Pushan Majumdar, Indian Association for the Cultivation of Science (IACS) Kolkata; **Project:** developing and optimizing an algorithm applied in computational quantum field theory.

Spring 2017 **Semester research** with Koel Das, IISER-K; **Project:** trying to predict incidence of autism spectrum disorder from EEG data.

Summer 2015 **Summer research** with Ananda Dasgupta, IISER-K; **Project:** describing uniformly accelerated observers in special relativity using Bondi k-calculus.

Link to Google Drive repository of project reports [here](#).

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## Skills

Natural languages	Bengali (native), English (bilingual), Hindi (fluent), German (B1)
Programming languages	Fortran (intermediate), R (intermediate), C (proficient), Python (proficient)
Software and libraries	Mathematica, MATLAB, gnuplot, Origin, LaTeX, NumPy, PyTorch, scikit-learn

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## Seminars, camps and schools attended

- **Development and Stem Cells: Regional meeting** hosted by Research Institute of Molecular Pathology (IMP) Vienna on May 6, 2022.
  - **SY-Stem (March 23-25, 2022)** hosted by IMP and Institute of Molecular Biotechnology (IMBA) Vienna from March 23-25, 2022.
  - **Current Trends in Modern Physics** hosted by IISER-K in April 2017.
  - **Global Initiative of Academic Networks (GIAN)** course *Superoscillations and Weak Measurement* taught by Michael Berry, and hosted by Prasanta Panigrahi at IISER-K.
  - **Current Trends in Modern Physics** course *Gravitation and High Energy Physics* hosted by IISER-K in November 2016.
  - **National Initiative on Undergraduate Sciences (NIUS) enrichment camp 11.1** hosted by Homi Bhabha Centre for Science Education, a national centre of the Tata Institute of Fundamental Research (TIFR) in Mumbai, India in June 2014.
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## Fellowships

- **Scholarship for Higher Education** awarded by the Department of Science and Technology of the Indian Government, to students in the 99th percentile of 12th grade school-graduating exam scores.
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## GRE and TOEFL test scores

- **TOEFL:** test taken 22 July 2017. Scaled scores: reading 30/30, listening 30/30, speaking 28/30, writing 30/30.
  - **General GRE:** test taken 12 July 2017. Scaled scores: verbal reasoning 170/170 (99th percentile), quantitative reasoning 167/170 (92nd percentile), analytical writing 5.5/6 (98th percentile).
  - **Physics GRE:** test taken 18 November 2017. Scaled score: 910/990 (86th percentile).
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## References

<b>Name</b>	<b>Institute</b>	<b>Email</b>
Prof. Ananda Dasgupta	IISER-Kolkata	adg@iiserkol.ac.in
Prof. Edouard Hannezo	IST Austria	Edouard.Hannezo@ist.ac.at
Prof. Bernat Corominas-Murtra	University of Graz	bernat.corominas-murtra@uni-graz.at
Prof. Bhavtosh Bansal	IISER-Kolkata	bhavtosh@iiserkol.ac.in
Prof. Narayan Banerjee	IISER-Kolkata	narayan@iiserkol.ac.in

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