(a) Contact Details

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- Citizenship: India

(b) Education

- University of Kentucky, Lexington, KY; Ph.D. in Physics, 2015-present, GPA: 4.0/4.0 (Thesis Advisor: Sumit R. Das)
- University of Delhi, Delhi, India; M.Sc in Physics, 2014.
- University of Delhi, Delhi, India; B.Sc (Hons.) in Physics, 2012.

(c) Awards and Fellowships

- Graduate Fellowship, Kavli Institute for Theoretical Physics, UCSB, Fall 2019 (Advisor: David J. Gross).
- Dean's Competitive Fellowship, University of Kentucky, Fall 2019.
- Max Steckler Fellowship, University of Kentucky, Spring 2017.
- Virendra Kumar Scholarship for securing highest percentage of marks in M.Sc in St. Stephens College, University of Delhi, 2014.
- Tokyo Mitsubishi UFJ Scholarship for Academic Excellence, 2012.
- Usha (India) Ltd. Prize/medal for the best pre final physics (Hons.) student, St. Stephens College, University of Delhi, 2011.
- Shrimati Kamla Bajaj prize/medal for the best student of Physics, St. Stephens College, University of Delhi, 2011.
- Ramesh Goel Memorial prize/medal for best student in second year, St. Stephens College, University of Delhi, 2010.
- Tushar Nagia prize/medal for securing the highest percentage of marks in First year of B.Sc, St. Stephens College, University of Delhi, 2010.
- Sumitomo-St. Stephens Scholarship for Academic Excellence, 2009.
- INSPIRE Scholarship for being in the top 1 per cent bracket in board examinations throughout India, 2009.
- Samarpan Basu award for securing the highest marks in Physics, Chemistry and Mathematics in Class 12 board examinations, Calcutta Boys' School, 2009.

(d) **Previous Research Experience**

2014–2015: **Visiting Research Student**, Tata Institute of Fundamental Research, Mumbai, India (Advisor: Shiraz Minwalla)

(e) **Publications**

- S.R. Das, A. Ghosh, A. Jevicki, and K. Suzuki. Three Dimensional view of arbitrary q SYK models. *Journal of High Energy Physics*. 2018. doi:10.1007/JHEP02(2018)162
- S.R. Das, A. Ghosh, A. Jevicki, and K. Suzuki. Space-Time in the SYK model. *Journal of High Energy Physics*. 2018. doi:10.1007/JHEP07(2018)184
- S.R. Das, A. Ghosh, A. Jevicki, and K. Suzuki. Duality in the Sachdev-Ye-Kitaev model. In: *Springer Proc.Math.Stat.* 255 (2017) 43-61, 2017. doi:10.1007/978-981-13-2179-5_4
- A. Ghosh, H. Maxfield, and G.J. Turiaci. A universal Schwarzian sector in two-dimensional Conformal Field Theories. *arXiv e-print: 1912.07654* (2019)

(f) Ongoing Research Projects

- "The Bulk dual of large q SYK", with Sumit Das, Antal Jevicki and Kenta Suzuki (ongoing).
- " $T\overline{T}$ /Wheeler deWitt", with Jorrit Kruthoff and Gustavo J. Turaci (ongoing).

(g) Conferences and schools attended

- Workshop on Qubits and Spacetime, Institute for Advanced Study, Princeton (December 2019).
- Prospects in Theoretical Physics (PITP) "From Qubits to Spacetime", Institute for Advanced Study, Princeton, (July 2018).
- Great Lakes Strings conference, University of Chicago, (April 2018).
- Theoretical Advanced Study Institute (TASI), "Anticipating the Next Discoveries in Particle Physics", University of Colorado, Boulder (June 2017).
- Great Lakes Strings conference, University of Cincinnati, (April 2017).

(h) Talks and Presentations

- "Constructing the bulk of the SYK model" Local's Lunch, Kavli Institute for theoretical physics, Santa Barbara (July 2019).
- "A three dimensional view of the SYK model" Indian Association for the Cultivation of Science, Kolkata, India (December 2017), Great Lakes Strings Conference, University of Chicago (2018), PITP, Institute for Advanced Study, Princeton (2018).

(i) Teaching Experience

• Laboratory Instructor, PHY 211/241 (Undergraduate level mechanics), University of Kentucky, Fall 2015, Spring 2016, Summer 2017 and 2018.

- Recitation Instructor, PHY 231/232 (Undergraduate level electricity and magnetism), University of Kentucky, Fall 2016, Summer 2016.
- Grader, PHY 228 (Undergraduate level Optics, Relativity and Thermal Physics), University of Kentucky, Spring 2016.
- Grader, PHY 632 (Graduate level Statistical Mechanics), University of Kentucky, Spring 2017, Spring 2018.
- Grader, PHY 605 (Graduate level General Relativity), University of Kentucky, Spring 2017.
- Grader, PHY 611 (Graduate level Electromagnetic Theory), University of Kentucky, Fall 2017, Fall 2018.
- Grader, PHY 616 (Graduate level Quantum Field Theory), University of Kentucky, Fall 2017, Fall 2017.
- Grader, PHY 500 (Introduction to Quantum Information Theory), University of Kentucky, Spring 2019.
- Grader, PHY 416 (Undergraduate level Electricity and Magnetism), University of Kentucky, Spring 2019.

(j) Other Skills

- Software: Mathematica, LATEX.
- Programming: C, C++, Python, Java.