

# Divyanshu Kumar Singh

Department of Computer Science and Engineering, IIIT Delhi

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## EDUCATION

- Indraprastha Institute of Information Technology Delhi** New Delhi, India
  - Bachelor of Technology - Computer Science and Engineering; GPA: 7.18 (SGPA: 8.56)* Aug 2017 - Present
  - Bachelor's Thesis:** Understanding Social Support and Mental Well-Being Needs of LGBTQIA+ University Student's
  - Advisor(s):** [Dr. Venkata Ratnadeep Suri](#), [Dr. Jainendra Shukla](#)

## PUBLICATIONS

- Divyanshu Kumar Singh**, Sumita Sharma, Jainendra Shukla, Grace Eden.: *"Toy, Tutor, Peer, or Pet?: Preliminary Findings from Child-Robot Interactions in a Community School"*, In Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction (Companion-HRI '20), Cambridge, UK, Mar-2020. [\[PDF\]](#) [\[Video\]](#)
- Divyanshu Kumar Singh**, Venkata Ratnadeep Suri, Jainendra Shukla: *"Design for the Well-Being of LGBTQIA+ University Students"*, (Lightly-Peer Reviewed, Workshop Paper) in *From Needs to Strengths: Operationalizing an Assets-Based Design of Technology* at ACM CSCW'2020, Oct-2020. [\[PDF\]](#)
- Divyanshu Kumar Singh**, Manohar Kumar, Eduard Fosch Villaronga, Deepa Singh, Jainendra Shukla : *"Ethical Considerations Arising from the Contextualization of Child-Robot Interactions in Under-Resource Communities"* in the International Journal of Social Robotics. (Journal Article, Under Review)
- Angel Walia, **Divyanshu Kumar Singh**, Grace Eden: *"Home as a Site for Learning: Online Schooling During COVID-19"* in the ACM INTERACT'2021. (Conference Paper, Under Review).

## RESEARCH PROJECTS

- Ethics in Child-Robot Interaction:** I analyzed the Child-Robot Interaction Videos to qualitatively code emerging ethical issues from my previous user-study with kindergarten children. After coding, we wrote philosophical and technical arguments to highlight the need for ethical guidelines in under-resourced communities. (Oct 2020 - Present)  
**Team Member:** Deepa Singh (PhD Scholar, Delhi University)  
**Advisor:** [Eduard Fosch-Villaronga](#), [Dr. Jainendra Shukla](#), [Dr. Manohar Kumar](#)
- Online Schooling During COVID Era:** Interview study with teachers, students and parents of different schools in Delhi including both private and government to understand how exactly is online learning playing out for them. I recruited and interviewed teachers, students and parents from Delhi govt. schools. Translated, transcribed and then coded the interview. (Jun 2020 - Dec 2020)  
**Team Member:** Angel Walia (Undergrad IIIT Delhi)  
**Advisor:** [Dr. Grace Eden](#)
- A Survey on Perception of Adults with Autism:** The aim of the project is to conduct a survey/interview to obtain the perception of adults with Autism Spectrum Disorder (ASD) in relation to the therapies and/or the interventions they received and their view and suggestions on the use of social robots for robot-assisted interventions for the cognitive well-being of the children with ASD. (Project on Halt Due to COVID) (Jul 2019 - Present)  
**Advisor:** [Dr. Jessica Korte](#), [Dr. Jainendra Shukla](#), [Prof. Anubha Gupta](#)

## WORK EXPERIENCE

- IIIT Delhi**
  - Summer Research Intern* — **Advisor:** [Dr. Anuj Grover](#) May 2020 - Jul 2020
    - Studied TRIZ (Theory of Inventive Problem Solving) in various use cases and prepared an engineering course curriculum. Individually explored a Child-Robot Interaction scenario as a problem and applied TRIZ.
- Human-Machine Interaction Lab - IIIT Delhi**
  - Undergraduate Researcher* — **Advisor:** [Dr. Jainendra Shukla](#) Jul 2019 - Present
    - Studying Human-Robot Interaction and Affective Computing (Building and Studying Machine Learning Model)
    - Worked with variety of population during user studies and conducted interaction/experiments with at least 60-70 people.
    - Research Methods: Interviews, Survey, Data Analysis(Quantitative & Qualitative), Focus-Group.
    - Developed the Lab Website - Currently Managing the website.
- Summer Camp 2019 - IIIT Delhi**
  - Coordinator* — **Supervisor:** [Ms. Sheetu Ahuja](#) Feb 2019 - Jun 2019
    - In 2019, 180 students from 7 different Delhi govt. school attended the summer camp.
    - Designed curriculum for 'Hands on Science' module along with team of volunteers for 5 weeks of study for students of class 8 and 9; and ensuring proper execution of the camp.

## TEACHING EXPERIENCE

- IIIT Delhi**
  - Teaching Assistant* — **Introduction to Human-Computer Interaction** Jan 2021 - Present
    - Instructor: [Dr. Rajiv Ratn Shah](#). Introductory course for 282 first year students.
    - Conducting & preparing tutorial session. Mentoring a group of 42 students.
    - Preparing quizzes and exams with rubric followed by grading the same.

## POSITION OF RESPONSIBILITY

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- **Coordinator ASTRONUTS - Astronomy Club of IIIT Delhi**

- *Conducted Sky-Observation and in-class session on Astronomy.*

*Aug 2018 - Jul 2019*

## PROFESSIONAL SERVICES

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- **Peer-Reviewer**

- *LBR/LBW — HRI'20, CHI'21*

- **Sub-Reviewer**

- *ICSR'20 Workshop (Child-Robot Interaction: Present and Future Relationships)*

## HONORS AND AWARDS

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- Selected for [SIGCHI CSCW Asia Winter School 2020](#) (Dec 18-19) - Amongst 50 Student Selected from Asia-Pacific Region
- Selected for Mentor-Mentee Program at [Workshop on Interactive System in Health 2020](#) (AMIA'20): Matched with [Dr. Oliver L. Haimson](#) (Univ. of Michigan) and Awarded Scholarship to attend the conference.
- Most Innovative Project - Annual Inter Delhi Public School Science Fair
- Runner Up District Level Basketball Championship (Jhajjar, Haryana)

## VOLUNTEERING

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- Student Volunteer for ACM/IEEE HRI'20: Among 20 selected out of 103 applicants
- Volunteer for ***Roshini***: Diwali Book Donation Drive 2019 for Govt. School Students
- Volunteer for event *Procon Jr.* at ESYA'2017 - Annual Technical Festival of IIIT Delhi