

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: 7.4 (SGPA: 9.2) 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 Reviewed, Workshop Paper) in *From Needs to Strengths: Operationalizing an Assets- Based Design of Technology* at ACM CSCW'2020, Oct-2020. [\[PDF\]](#)

RESEARCH PROJECTS

- **Education & Technology in Disruption:** The aim of the project is to conduct interviews with parents, students, teachers and an NGO to understand their technology use and non-use for education in Kashmir. We are specifically investigating the resiliency, aspirations and assets in the community which have faced long technological and social disruption in Kashmir, India. (March 2021 - Present)
Team Member: [Asra Sakeen Wani](#) (PhD Scholar, IIIT Delhi)
Advisor: [Dr. Pushpendra Singh](#)
- **Design for the Well-Being of LGBTQIA+ University Students:** Interview study to understand social, emotional and mental support resources/ties available to emerging LGBTQ+ adults in India and what different role technology play at each stage in life. We also look at Rural-urban tech use and non-use. Design and conducted 30+ interviews with participants from across India. Currently, qualitatively coding and analyzing the data. (Aug 2020 - Present)
Advisor: [Dr. Venkata Ratnadeep Suri](#), [Dr. Jainendra Shukla](#), [Dr. Gopinaath Kannabiran](#)
- **Ethics of Child-Robot Interaction in Under-resourced Context:** Analyzing the Child-Robot Interaction Videos to qualitatively code emerging ethical issues from our previous [user-study](#) with kindergarten children in a community school. We engaged in philosophical and technical arguments to highlight the urgent need for ethical guidelines to deploy social robot for children in under-resourced communities.
Article is currently under review at International Journal of Social Robotics. (Oct 2020 - Feb 2021)
Team Member: Deepa Singh (PhD Scholar, Delhi University)
Advisor: [Dr. 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 - Sep 2020)
Team Member: Angel Walia (Undergrad IIIT Delhi)
Advisor: [Dr. Grace Eden](#)
- **Social Robots for Primary Education:** Deployed a social robot at a community school in New Delhi. Interactions of Kindergarten students with the robot during a language learning task were analyzed over a period of a month. Scheduled, organized and conducted the field study and user study. Work presented as poster at ACM HRI'2020. (Jul 2019 - Dec 2019)
Advisor: [Dr. Sumita Sharma](#), [Dr. Jainendra Shukla](#), [Dr. Grace Eden](#)

WORK EXPERIENCE

- **Scry Analytics**
Software Engineer Jun 2021 - Present
 - Working in Data Science team on the flagship product [Collatio](#).
- **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 - Apr 2021*
 - Instructor: [Dr. Rajiv Ratn Shah](#). Introductory course for 282 first year students.
 - Conducting & preparing tutorial session. Mentoring a group of 42 students.
 - Prepared quizzes, exams and projects with rubric, followed by grading the same.

POSITION OF RESPONSIBILITY

Coordinator ASTRONUTS - Astronomy Club of IIIT Delhi

- *Conducted Sky-Observation and in-class session on Astronomy.* *Aug 2018 - Jul 2019*

PROFESSIONAL SERVICES

Program Committee

- *COMPASS'21 (Shadow & Posters)*

Peer-Reviewer

- *LBR/LBW — HRI'20, CHI'21, CSCW'21*

Sub-Reviewer

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

HONORS AND AWARDS

- 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

- 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