

RISHI VANUKURU

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EDUCATION

Now	IDC School of Design, IIT Bombay Master of Design in Interaction Design, 2018 - 2020	CGPA: 9.12/10
2018	Indian Institute of Technology Bombay Bachelor of Technology in Civil Engineering Minor in Design at the Industrial Design Centre	CGPA: 9.12/10
2014	Apeejay School, Nerul All India Senior School Certificate Examination	PERCENTAGE: 97.80%

RESEARCH

ONGOING	Soundspotting - Connecting Communities through Interactive Social Soundscapes <ul style="list-style-type: none">Exploring the applications of Audio Augmented Reality to impart a sense of presenceDesigned a system that allows people to experience Interactive Soundscapes consisting of a virtual crowd environment created using Resonance Audio and Unity3D along with a physical head mounted Arduino controllerConducted initial tests of the system with users from our institutional community, to gauge its usability and level of acceptance
JULY 2017 - MAY 2018	A Bio-inspired Interactive Tool for Multi-Modal Transportation Network Design <i>Guide: Dr. Nagendra R. Velaga, Department of Civil Engineering, IIT Bombay</i> <ul style="list-style-type: none">Developed and extended a multi-agent computational model based on the biological Slime Mould, for application to multi-modal transportation network designCreated a visual design tool based on the Processing Java framework for the application of the modelIn Proceedings - Vanukuru, Rishi, and Nagendra R. Velaga. "Multimodal Transportation Network Design Using Physarum Polycephalum-Inspired Multi-agent Computation Methods." <i>International Conference on the Applications of Evolutionary Computation</i>. Springer, Cham, 2018.
AUGUST 2018	Designing for Small Scale Food Vendors - A Contextual Inquiry <i>Course Project: User Studies, Prof. Anirudha Joshi</i> <ul style="list-style-type: none">Conducted a Contextual Inquiry into the livelihoods of small scale food vendors in urban and rural Indian settings, as part of a team of sixInterpreted the interviews using Affinity Mapping and Card Sorting techniques, and created User Personas for the purpose of formulating effective design strategies
ONGOING	Sense and Believability - Experiments in Design Fiction <i>Course Project: Trends in Interactive Technologies, Prof. Venkatesh Rajamanickam</i> <ul style="list-style-type: none">Applying the framework of Design Fiction to conceptualise systems for a future world where all sensory stimuli can be falsifiedResearching into areas of Sensory Encryption and Human Explainable cryptography

DESIGN

JULY 2017 - Nov. 2017	System for Elderly Pill Intake and Administration (SEPIA) <i>Course Project: Introduction to Design - Case Studies, Prof. B.K.Chakravarthy</i> <ul style="list-style-type: none">Designed and developed a pill dispensing water bottle to aid senior citizens in IndiaAs part of a team of 8, created a series of illustrations, mock-ups and prototypes while testing the product ideas
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- JULY 2017 - **Bipolar Spectacles - Experiments in comic art based storytelling**
 DEC. 2017 *Studio Project guided by Prof. Phani Tetali, IDC, IIT Bombay*
- Created a comic series based on the lives of students at IIT Bombay
 - Designed a book, presented it as part of DE 405: Studio Project and secured an AA grade
- JULY 2015 - **Shadows - A Photo-book**
 NOV. 2015 *Course Project: Basics of Visual Communication, Prof. Raja Mohanty*
- Working in a team of two, took photographs over the semester to depict the theme 'The Inner Lives of Students at IIT Bombay'
 - Designed a photo-book, and composed free verse poetry to accompany the photographs

SOFTWARE SKILLS

Programming	Processing, Arduino, C/C++, C#, MATLAB
Software	Adobe Suite, FL Studio, Unity3D, Android Studio
Web Development	HTML, CSS, Javascript

RELEVANT COURSES

Design	Interaction Media and Senses, User Studies, Usability Analysis, Interface Design, Instructional Design (<i>ongoing</i>), Trends in Interactive Technologies (<i>ongoing</i>), Technology and Animation, Perspectives on World Cinema
Music	Introduction to Music Production, Developing your Musicianship (<i>Berklee College of Music on Coursera</i>); Music as Biology (<i>Duke University on Coursera</i>)
Other	Machine Learning (<i>Stanford University on Coursera</i>), Fundamentals of Urban Science and Engineering, Introduction to the Study of Language, Introduction to Electrical Engineering

TEST SCORES

GRE	Total : 338/340 Quantitative Ability: 170/170 Verbal: 168/170 Analytical Writing: 5/6
TOEFL	Total : 119/120 Reading: 30/30 Listening: 30/30 Speaking: 29/30 Writing: 30/30

POSITIONS OF RESPONSIBILITY

- JULY 2018 - **Teaching Assistant**
 PRESENT *Supervisor - Prof. Jayesh Pillai, IDC School of Design*
- Assisting in the organisation of courses for B.Des and M.Des classes, as well as research projects undertaken by the group led by Prof. Pillai
 - Working on the design and maintenance of the CEED 2019 (Common Entrance Examination for Design) web portal
- JAN. 2018 - **Teaching Assistant**
 MAY 2018 *Department of Civil Engineering, IIT Bombay*
- Taught a class of 60 freshman students in the weekly tutorial session along with two co-TAs, for the course CE102 - Engineering Mechanics
- APR. 2017 - **Institute Student Mentor**
 APR. 2018 *ISMP, IIT Bombay*
- Personally mentored 12 freshmen students to guide them through their first year, and help them overcome their academic and personal challenges
 - As part of a team of mentors, worked to assist the freshman batch in adjusting to campus life and navigating various social and linguistic barriers