Rahul Arora

CONTACTDGP Lab, Bahen Centre for ITarorar@cs.toronto.eduINFORMATIONUniversity of Toronto, Toronto ON M5S 2E4dgp.toronto.edu/~arorar

RESEARCH Interactive Computer Graphics
INTERESTS Human-Computer Interaction
Virtual and Augmented Realities

EDUCATION PhD, University of Toronto 2015-Present

Major: Computer Science

CGPA: 4.0/4.0

MTech, Indian Institute of Technology, Kanpur 2014-2015

Major: Computer Science and Engineering

CGPA: 9.6/10.0

BTech, Indian Institute of Technology, Kanpur 2010-2015

Major: Computer Science and Engineering

CGPA: 8.5/10.0

PUBLICATIONS Volumetric Michell Trusses for Parametric Design & Fabrication

Rahul Arora, Alec Jacobson, Timothy R. Langlois, Yijiang Huang, Caitlin Mueller, Wojciech Matusik, Ariel Shamir, Karan Singh, and David I.W. Levin ACM Symposium on Computational Fabrication 2019 (SCF '19)

Designing Volumetric Truss Structures for Computational Fabrication Rahul Arora, Alec Jacobson, Timothy R. Langlois, Karan Singh, and David I.W. Levin Graphics Interface 2018 Posters (GI '18)

SymbiosisSketch: Combining 2D and 3D Sketching for Designing Detailed 3D Objects in Situ

 $Rahul\ Arora$, Rubaiat Habib Kazi, Tovi Grossman, George Fitzmaurice, and Karan Singh

ACM SIGCHI Conference on Human Factors in Computing Systems 2018 (CHI '18)

Experimental Evaluation of Sketching on Surfaces in VR

Rahul Arora, Rubaiat Habib Kazi, Fraser Anderson, Tovi Grossman, Karan Singh, and George Fitzmaurice

ACM SIGCHI Conference on Human Factors in Computing Systems 2017 (CHI '17)

SketchSoup: Exploratory Ideation using Design Sketching

Rahul Arora, Ishan Darolia, Vinay P. Namboodiri, Karan Singh, and Adrien Bousseau Computer Graphics Forum (CGF) 2017, presented at Eurographics 2017

Derandomizing Isolation Lemma for K_{3,3}-free and K₅-free Bipartite Graphs

Rahul Arora, Ashu Gupta, Rohit Gurjar, and Raghunath Tewari

Symposium on Theoretical Aspects of Computer Science (STACS) 2016

TEACHING EXPERIENCE	Computer Graphics, University of Toronto Teaching Assistant for Prof. Karan Singh and Prof. David Levin	Winter 2018
	Computer Graphics, University of Toronto Teaching Assistant for Prof. Karan Singh and Prof. Alec Jacobson	Fall 2017
	Intro to Theory of Computation, University of Toronto Teaching Assistant for Prof. Azadeh Farzan	Fall 2015
	Introduction to Computer Graphics, IIT Kanpur Teaching Assistant for Prof. Vinay P. Namboodiri	Fall 2014
SELECTED INTERNSHIPS	Adobe Research, Seattle, USA Mentored by Dr. Rubaiat Habib, Dr. Danny Kaufman, and Dr. Wil Li Studied gestural methods for authoring animations in VR.	Summer 2018
	Autodesk Research, Toronto, Canada Mentored by Dr. Tovi Grossman and Dr. Rubaiat Habib Developed a prototype augmented reality tool for concept sketching in 3	Winter 2017 BD.
	Autodesk Research, Toronto, Canada Mentored by Dr. Tovi Grossman and Dr. Rubaiat Habib Conducted controlled experiments to understand 3D sketching ability.	Summer 2016
	Adobe Research, Bangalore, India	Summer 2013
	Mentored by Ramesh Srinivasaraghavan Built a gamified crowdsourcing platform for object recognition tasks.	Summer 2013
AWARDS AND	Mentored by Ramesh Srinivasaraghavan	2018
AWARDS AND RECOGNITION	Mentored by Ramesh Srinivasaraghavan Built a gamified crowdsourcing platform for object recognition tasks. Adobe Research Fellowship 2019	
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