Rahul Arora

CONTACT DGP Lab, Bahen Centre for IT arorar@cs.toronto.edu
INFORMATION University of Toronto, Toronto ON M5S 2E4 dgp.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 MagicalHands: Mid-Air Hand Gestures for Animating in VR

Rahul Arora, Rubaiat Habib Kazi, Danny Kaufman, Wilmot Li, and Karan Singh ACM Symposium on User Interface Software and Technology 2019 (UIST '19)

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 K ₅ -free Bipartite Graphs
Rahul Arora, Ashu Gupta, Rohit Gurjar, and Raghunath Tewari

Symposium on Theoretical Aspects of Computer Science (STACS) 2016

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	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	Winter 2017 3D.
		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 Mentored by Ramesh Srinivasaraghavan Built a gamified crowdsourcing platform for object recognition tasks.	Summer 2013
	AWARDS AND RECOGNITION	Adobe Research Fellowship 2019 (US \$10,000)	2018
		Adobe Research Fellowship 2018 finalist	2017
		Mitacs Accelerate Award for industrial partnership (CA $$15,000$)	2016
		Merit-cum-Means Scholarship, IIT Kanpur	2010 – 2014
		Academic Excellence Award, IIT Kanpur (top 5% students)	2013
	REVIEWING EXPERIENCE	Human Factors in Computing Systems (CHI)	2017-2019
		User Interface Software and Technology (UIST)	2018-2019
		Transactions on Visualization and Computer Graphics (IEEE TVCG)	2019
		Virtual Reality (IEEE VR)	2018

Designing Interactive Systems (DIS)

Computer Graphics and Applications (IEEE CG&A)

Spatial User Interfaces (SUI)

Graphics Interface (GI)

2018

2018

2018

2017