

Shruti Agarwal

CONTACT INFORMATION	Dartmouth College 6211 Sudikoff Laboratory Hanover, NH 03755	+1(401)651-7667 shruti.agarwal.gr@dartmouth.edu http://www.cs.dartmouth.edu/~shruti/
RESEARCH INTERESTS	Multimedia Forensics, Image Analysis, Machine Learning and Computer Vision.	
EDUCATION	Dartmouth College , Hanover, New Hampshire USA Ph.D., Computer Science (expected graduation: 2020) <ul style="list-style-type: none">• Advisor: Prof. Hany Farid Indian Institute of Technology Delhi (IIT Delhi) , Delhi, India M. Tech., Computer Science; CGPA: 9.5/10.0 <ul style="list-style-type: none">• Thesis: A New Consistency Measure using Shape from Shading (SFS) for Dense 3D Reconstruction Paradigm.• Advisor: Prof. Subhashis Banerjee and Prof. Prem Kalra Harcourt Butler Technological Institute , Kanpur, India B.Tech., Computer Science; Percentage: 79.92%	2015 - present 2010 - 2012 2006 - 2010
PUBLICATIONS	W. Fan, S. Agarwal , and H. Farid. Rebroadcast Attacks: Defenses, Reattacks, and Redefenses, European Signal Processing Conference (EUSIPCO), Rome, Italy, 2018. (pdf) S. Agarwal , W. Fan, and H. Farid. A Diverse Large-Scale Dataset for Evaluating Rebroadcast Attacks. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, Alberta, Canada, 2018. (pdf) S. Agarwal and H. Farid. A JPEG Corner Artifact from Directed Rounding of DCT Coefficients. TR2018-838, Department of Computer Science, Dartmouth College, 2018. (pdf) S. Agarwal and H. Farid. Photo forensics from JPEG dimples. 2017 IEEE Workshop on Information Forensics and Security (WIFS), Rennes, 2017, pp. 1-6. (pdf) S. Agarwal , D. Tran, L. Torresani and H. Farid. Deciphering Severely Degraded License Plates. in Electronic Imaging, Media Watermarking, Security, and Forensics, San Francisco, CA, 2017, pp. 138-143(6). (pdf)	
CONFERENCE PRESENTATIONS	S. Agarwal, W. Fan, and H. Farid. "A Diverse Large-Scale Dataset for Evaluating Rebroadcast Attacks". IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, Alberta, Canada, April 2018. S. Agarwal and H. Farid. "Photo forensics from JPEG dimples," 2017 IEEE Workshop on Information Forensics and Security (WIFS), Rennes, December 2017. S. Agarwal, D. Tran, L. Torresani and H. Farid. Deciphering Severely Degraded License Plates. in Electronic Imaging, Media Watermarking, Security, and Forensics, February 2017.	

ACADEMIC EXPERIENCE	Dartmouth College , Hanover, New Hampshire USA <i>Teaching Assistant (TA)</i>	2015 - 2016
	Introduction to Programming and Computation (CS 1) Fall 2015, CS 1 Winter 2016, and Numerical and Computational Tools for Applied Science (CS 70/170) Spring 2016. Duties included office hours, grading and leading weekly computer lab exercises.	
	IIT Delhi , Delhi, India <i>Teaching Assistant (TA)</i>	2010 - 2012
	Introduction to Digital Image Processing, Introduction to Logic Programming and Introduction to Computer Network courses. I helped in evaluating student assignments and exam papers.	
PROFESSIONAL EXPERIENCE	Adobe Systems India Private Limited , Noida, India <i>Member of Technical Staff (MTS II), Adobe Illustrator</i>	2012 - 2015
	My role involved algorithm designing, coding, technical brainstorming and technical designing. Main contributions were towards development of touch optimized workspace and Live Corner features in Adobe Illustrator. https://helpx.adobe.com/illustrator/how-to/draw-touch-environment.html https://helpx.adobe.com/illustrator/how-to/live-corners-in-illustrator.html	
HONORS AND AWARDS	Winner of the Dartmouth Rendering Competition 2018.	
	Best Poster Award, Computer Science Research Symposium, Dartmouth College, 2016.	
	MHRD (Ministry of Human Resource Development, Government of India) Scholarship towards master's degree, 2010-2012.	
COURSES AT DARTMOUTH	<ul style="list-style-type: none"> • Rendering Algorithms (CS 187) • Machine Learning and Statistic Analysis (CS 174) • Advanced OS (CS 258) • Computer Graphics (CS 177) • Numerical and Computational Tools for Applied Science (CS 170) • Topics in Applied Computer Science - Visual Recognition (CS 189) • Computational Aspects of Digital Photography (CS 189.15) 	Spring 2018 Fall 2017 Winter 2017 Fall 2016 Spring 2016 Winter 2016 Fall 2015