EKTA PRASHNANI

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EDUCATION

SEPT 2013 - *Present*	Doctor of Philosophy, Electrical and Computer Engineering **University of California**, Santa Barbara Current research: perceptual consistency of computer vision algorithms Research interests: computer vision, machine learning and computational photography Advisor: Dr. Pradeep Sen, Associate Professor at UCSB
SEPT 2013 - JUNE 2015	Master of Science, Electrical and Computer Engineering **University of California**, Santa Barbara GPA: 3.84/4
JUNE 2009 - AUG 2013	Bachelor of Technology, Electrical Engineering, with a minor in Computer Science **Indian Institute of Technology**, Gadhinagar GPA: 8.44/10 Capstone project: Light fields for multi-perspective stereoscopy Advisor: Nikhil Balram, Guest Professor at IIT Gandhinagar & Senior Director of Engineering for AR/VR at Google

PUBLICATIONS

Ekta Prashnani*, Herbert Cai*, Yasamin Mostofi and Pradeep Sen, "PIEAPP: Perceptual Image-Error Assessment through Pairwise Preference", *Computer Vision and Pattern Recognition, 2018*.

Ekta Prashnani, Maneli Noorkami, Daniel Vaquero and Pradeep Sen, "A phase-based approach for animating images using video examples", *Computer Graphics Forum, August 2016, Volume 36, Issue 6*.

INTERNSHIPS

JUNE 2016 - SEPT 2016	Low-light image denoising using flash photography Adobe Research, San Jose, California Advisors: Dr. Sunil Hadap, Principal Scientist and Dr. Kalyan Sunkavalli, Research Scientist, Creative Intelligence Lab Explored the use of flash-based relighting of images for denoising low-light versions of the same scenes.
JUNE 2015 - SEPT 2015	3D Scene understanding for correcting image distortions (*Patent Granted*) Ricoh Innovations Corp., Menlo Park, California Advisors: Dr. Silvio Savarese, Associate Professor at Stanford University; Dr. Kathrin Berkner, Director of California R&D; and Dr. Jorge Moraleda, Principal Research Scientist Developed a novel algorithm to utilize prior knowledge obtained from scene understanding for correcting common image distortions to rectify images.
JUNE 2014 - SEPT 2014	Image animation using video examples (*Patent Pending*) Nokia Technologies, Sunnyvale, California Advisors: Dr. Maneli Noorkami, Senior Researcher and Dr. Daniel Vaquero, Senior Researcher Developed a novel phase-based approach to animate natural images by imparting gentle motion to objects using a similar video example provided by the user.

MAY 2012 - AUG 2012	Text detection for visual search technology (*Patent Granted*) Ricoh Innovations Pvt. Ltd., Bengaluru, India Advisor: Dr. Kaushik Pavani, Research Scientist Developed a text detection method for natural images, invariant to scale, rotation, translation and perspective distortion.

PATENTS (GRANTED AND PENDING)

FEB 2018	Single Image Rectification Inventors: Jorge Moraleda, Ekta Prashnani, Michael J. Gormish, Kathrin Berkner, Silvio Savarese Patent number: US9904990B2
JUL 2016	Methods and apparatus for processing motion information images (*pending*) Inventors: Ekta Prashnani, Maneli Noorkami, Daniel Andre Vaquero Publication number: WO2016108847A1
MAY 2015	Local Scale, Rotation and Position Invariant Word Detection for Optical Character Recognition Inventors: Sri-Kaushik Pavani, Ekta Prashnani Patent number: US9025877B2

AWARDS

MAY 2018	Outstanding Teaching Assistant (Dept. of Electrical and Computer Engg. at UCSB)
APR 2018	Google Travel Award for CVPR2018
DEC 2017	Semi-finalist for Qualcomm Innovation Fellowship
SEPT 2017	AI Grant Fellowship
DEC 2015	Harold Frank scholarship at UCSB
AUG 2013	Dean's list for academic excellence at IIT Gandhinagar
JULY 2012	Excellence in the internship at Ricoh Innovations Pvt. Ltd.
APR 2010	Underwriters Laboratories research award for national fire data analysis

TEACHING

JULY 2017 - Present	Teaching assistant: capstone projects (electrical engineering) Responsible for providing technical mentorship to senior undergraduate capstone projects related to computer vision, machine learning, electronics, embedded systems and signal processing.
JULY 2017 - AUG 2017	Research mentor for high school students (UCSB Research Mentorship Program) Taught concepts of computer vision and machine learning to four high school seniors; designed and mentored their summer research projects involving deep learning for object detection and image restoration.
SEPT 2016 - MAY 2017	Teaching assistant: capstone projects (electrical engineering) Provided technical mentorship to senior undergraduate capstone projects in the field of computer vision and machine learning (one team secured the *Best Technical Capstone project* award for their project on image super-resolution).

TECHNICAL SKILLS

C++, MATLAB, Python, PyTorch, Caffe, OpenCV, Tensorflow