EKTA PRASHNANI

Santa Barbara, California | ektaprashnani@gmail.com | +1-805-280-1502

EDUCATION

SEPT 2013 - Doctor of Philosophy, Electrical and Computer Engineering

Present University of California, Santa Barbara

Current research: perceptual consistency of computer vision algorithms Research interests: computer vision, machine learning and computa-

tional photography

Advisor: Dr. Pradeep Sen, Associate Professor at UCSB

SEPT 2013 - Master of Science, Electrical and Computer Engineering

JUNE 2015 University of California, Santa Barbara

GPA: 3.84/4

JUNE 2009 - Bachelor of Technology, Electrical Engineering, with

Aug 2013 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 - Low-light image denoising using flash photography

SEPT 2016 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 - 3D Scene understanding for correcting image distortions (Patent Granted)

SEPT 2015 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 understand-

ing for correcting common image distortions to rectify images.

JUNE 2014 - Image animation using video examples (Patent Pending)

SEPT 2014 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 - Text detection for visual search technology (Patent Granted)

Aug 2012 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 Charac-

ter 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	Al 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

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luly 2017 -	Teaching assistant	 canstone pro 	iects (electrica	Lengineering)

Present Responsible for providing technical mentorship to senior undergraduate capstone projects related to computer vision, machine learning, electronics, embed-

ded systems and signal processing.

JULY 2017 - Research mentor for high school students (UCSB Research Mentorship Program)

Aug 2017 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 - Teaching assistant: capstone projects (electrical engineering)

MAY 2017 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