EKTA PRASHNANI

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EDUCATION

present	Doctor of Philosophy, Electrical and Computer Engineering **University of California**, Santa Barbara Current research: perceptual consistency of computer vision algorithms Advisor: Dr. Pradeep Sen, Associate Professor at UCSB
JUNE 2015	Master of Science, Electrical and Computer Engineering **University of California**, Santa Barbara GPA: 3.84/4
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

FEB 2018	Single Image Rectification Inventors: Jorge Moraleda, Ekta Prashnani, Michael J. Gormish, Kathrin Berkner, Silvio Savarese Patent number: US9904990B2
JULY 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 Grant 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

TEACHING

JULY 2017 - MAY 2018	Teaching assistant: capstone projects (electrical engineering) Provided technical mentorship to senior undergraduate capstone projects, particularly for computer vision, machine learning and signal processing (a team I mentored for medical imaging was chosen to present at UCSB's Engineering Design Expo, 2018).
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