

ATIEH TAHERI

Dept. of Electrical & Computer Engineering, UC Santa Barbara, Santa Barbara, CA 93106
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RESEARCH INTERESTS

Computer Vision, Deep Learning (Multimodal Learning), Image Processing

EDUCATION

University of California, Santa Barbara Santa Barbara, CA, USA
Ph.D. student in Electrical and Computer Engineering Present
Advisor: Dr. Yuan-Fang Wang

University of California, Santa Barbara Santa Barbara, CA, USA
M.Sc. in Electrical and Computer Engineering, GPA: 3.77/4.00 June 2019

Sharif University of Technology Tehran, Iran
B.Sc. in Computer Engineering (Software Engineering), GPA: 18.13/20 Sept. 2011
Thesis: Analysis and Implementation of Digital Image Inpainting Algorithms

PROFESSIONAL EXPERIENCE

Apple Inc., Cupertino, California, Summer Intern Summer 2017
Advisor: Dr. Marco Zuliani, Computer Vision Research Manager

- Computer Vision and Machine Learning Research Project: Inspection tools for Deep Convolutional Networks

Apple Inc., Cupertino, California, Summer Intern Summer 2016
Advisor: Dr. Marco Zuliani, Computer Vision Research Manager

- Computer Vision and Machine Learning Research Project: 3D Technology for User Photo Libraries

Magic Leap Inc., Mountain View, California, Summer Intern Summer 2015
Advisor: Dr. Jason Wither, Senior Software Engineer

- Simulation and implementation of stereo monochromatic camera and depth sensor

Mobile Value Added Services Laboratory, Tehran, Iran, Summer Intern Summer 2010
Advisor: Dr. Hamid R. Rabiee, Professor at Sharif University of Technology

- Sim card programming and developing applet for it

HONORS AND AWARDS

- Selected* as an outstanding student in Lower-Division Italian Language Courses for meritorious achievement throughout the year 2018-2019 in the Dept. of French and Italian at the University of California, Santa Barbara 2019
- Awarded* Electrical and Computer Engineering Department Fellowship from University of California, Santa Barbara 2014
- Awarded* Fellowship of Exceptional Talents of Sharif University 2011
- Ranked 2nd* in cumulative GPA among all B.Sc. students of Computer Engineering department, Software Engineering, Sharif University 2011
- Ranked 6th* in cumulative GPA among all B.Sc. students of Computer Engineering department, Sharif University 2011
- Winner* of the best internship project in Mobile Value Added Services Laboratory, Sharif University 2011
- Ranked 1st* in cumulative GPA among all high school students in province 2005

SELECTED PROJECTS

Implementation of Image Registration [MatLab] <ul style="list-style-type: none">Implemented a system that can align image pairs into a single image. It can process variable number of images and it is invariant to the input order.	Spring 2016
Viewpoint Invariant Human Head Detection for Crowd Counting [MatLab] <ul style="list-style-type: none">Implemented a system that detects the human heads in an image and can count the number of people in a crowded scene.	Spring 2015
Subsurface Scattering Approximation [C++] <ul style="list-style-type: none">Implemented a system that renders Subsurface Scattering effects and so developed a combination of local thickness, depth map, and Monte Carlo.	Winter 2015
REYES-Style Graphics Rendering [C++] <ul style="list-style-type: none">Implemented a Reyes-style, micropolygon-based architecture that processes input through a RenderMan-like C interface.	Winter 2015
Accelerated Ray Tracer with Monte Carlo [C++] <ul style="list-style-type: none">Implemented a Whitted-style ray tracer with global illumination features such as reflection, refraction, and shadow.Accelerated the ray tracer with Bounding Volume Hierarchy which decreases the time complexity	Winter 2015
Implementation of OpenGL-Style Software Rendering Pipeline [C++] <ul style="list-style-type: none">Developed a software implementation of all the principal blocks of the graphics pipeline: vertex transformation, clipping, rasterization, texturing and framebuffer operationsBuilt a Maze Explorer game	Fall 2014
Snow Fountain - Short Animated Movie [C++, Previsualization in OpenGL] <ul style="list-style-type: none">Developed a ray tracer to render scenes in the animationImplemented some features such as Reflection, refraction, soft shadow, motion blur	Fall 2014
Online Registration and Course Selection [PHP, HTML, CSS, Java Script] <ul style="list-style-type: none">Developed an online course registration with web interface and design	Fall 2010
3D Virtual Atmosphere Computer Game [Java, OpenGL] <ul style="list-style-type: none">Designed and developed a computer game called "Mountainside View"	Spring 2010
Compiler [Java] <ul style="list-style-type: none">Developed a complete compiler for an arbitrary language consisted of a scanner, parser and code generator for Windows	Spring 2009

TECHNICAL SKILLS

C++, Java, Python, Tensorflow, Keras, PyTorch, MatLab, OpenGL, OpenCV, SQL

VOLUNTEER ACTIVITIES

<ul style="list-style-type: none"><i>Participated as an Area Chair</i> in Women in Machine Learning (WiML) Workshop	2019
<ul style="list-style-type: none"><i>Raised money for</i> Working on Walking (WoW), an organization dedicated to supporting all efforts related to Spinal Muscular Atrophy (SMA)	2017