

# Zahra Montazeri

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- EDUCATION**
- ◇ **Ph.D in Computer Science**, University of California, Irvine, **GPA: 3.83/4**      **expected 2020**
  - ◇ **Master in Computer Science**, University of California, Irvine, **GPA: 3.83/4**      **2017**
  - ◇ **B.Sc. in Computer Engineering** Sharif University of Technology, Iran **GPA: 3.74/4**      **2015**
- RESEARCH EXPERIENCE**
- ◇ **Member of Interactive Graphics and Visualization Laboratory, UC Irvine** under supervision of Prof. Shuang Zhao and Prof. M. Gopi
    - Fiber-based models for realistic cloth rendering      **Sep 2017 - Present**  
Simulated fiber-level appearance for cloth rendering in case of stretch, using Mitsuba
    - Surface-Based Modeling for Cloth Rendering using Volumetric Data      **Sep 2016 - July 2017**  
Implemented a new plugin for Mitsuba renderer and a c++ tool using openCV and Eigen.
    - Separating Overlapping Tissue Layers from Microscopy Images      **April - Sep 2016**  
Using the Image Modeling and texture synthesis.
    - UI Design and Implementation for a Brain Analyzer Application      **Sep - April 2015**
  - ◇ **Member of Image Processing Laboratory, Sharif University of Technology**, under supervision of Prof. Shohreh Kasaei.
    - Camera Pose Estimation using RGB-D cameras.      **Jan. 2014 - Feb 2015**  
Calculated Visual Odometry using Principal Component Analysis (PCA), Implemented in Java.
    - Real-time Camera Tracking using Sports Pitch Markings.      **March - July 2014**  
Computed the extrinsic and intrinsic parameters of the camera, using OpenCV
    - Design and rendering human figures for sport-player recognition using Poser      **2012-2013**
- WORK EXPERIENCE**
- ◇ **R&D intern, Dreamworkds Animation**, lighting team  
Implimented a new plugin for Katana. This c++ tool extracts light rig from panorama stereo images.
  - ◇ **R&D intern, Dreamworkds Animation**, Rendering team  
Volenteerly worked with Moonray (Dreamworks Renderer) on implimentation of Multiple Importance Sampling for emissive volumes.      **Summer 2017**
  - ◇ **Student Volunteer at SIGGRAPH**, Anaheim, California      **July 2016**
  - ◇ **Software engineer intern, xSeer Inc**, San Francisco, Bay Area  
Working on Visualization of big data using WebGL and Three.js      **Summer 2016**
  - ◇ **Research assistant, 6-month Internship, Intelligence User Interface Lab, Koc University, Istanbul**  
Designing and Implementation of an Android User Interface. The application designed for teachers and students to solve and grade quizzes remotely.      **Feb - July 2015**
  - ◇ **Research assistant, summer internship, Intelligence User Interface Lab, Koc University, Istanbul**  
Visualization of Hierarchical Data of an Intelligent User Interface for Student Assessment through Free-Form Questions using Navigable Treemap.      **Summer 2014**
  - ◇ **Painting Teacher at Visual Art Club**, Sharif University of Technology      **2012 - 2015**
  - ◇ **Managing Editor for Computer Science articles, IUT Literary Publication**      **2011**

- TECHNICAL SKILLS
- ◇ **Programming Languages:** Java, C/C++, Python, Pascal, Node.js, PHP, HTML, JavaScript, CSS, Verilog HDL, Android Programming, Assembly(8085, 8086, 8051, MIPS)
  - ◇ **Tools:** Katana, Houdini, Matlab, Poser, 3D MAX, Maya, Qt creator, Windows Journal, eclipse, ModelSim, Altera Quartus, HSPICE, Proteus, CodeVision AVR.
  - ◇ **Operating Systems:** Linux, Mac OS, Windows
- HONORS AND AWARDS
- ◇ **Grace Hopper Celebration of Women in Computing Scholarship** Orlando **Oct 2017**
  - ◇ **Runner-up poster award at Computer Science show-case**, University of California, Irvine **May 2017**
  - ◇ **UC, Irvine PhD Fellowship, including five years of full financial support**, University of California, Irvine **Sep 2015 - Present**
  - ◇ **LightSpeed Venture Partners (LSVP) Summer Fellowship**, internship at xSeer Inc, San Francisco, Bay Area **July - Sep 2016**
  - ◇ **CRA-W Scholarship**, Grad Cohort Workshop, San Diego **April 2016**
  - ◇ **MS Student Scholarship** from The Scientific and Technological Research Council of Turkey (TUBITAK) at Koc University, Istanbul, Turkey **February - July 2015**
  - ◇ **Ranked 3<sup>rd</sup>** in Cumulative GPA among students in Computer Engineering major of the department, **2010 beginners**, Sharif University of Technology.
- PATENTS
- ◇ M.S. Mahdavi, **Z. Montazeri**, B. Abdi, and Sh. Moghani, A Novel Eighteen-Step Tree-Phase Seven-Level Inverter Topology for a D-STATCOM Submitted to State Organization for Registration Of Deeds and Properties (SSAA), 2013.
- BOOKS
- ◇ Published Paintings for Poem Book: **Zahra Montazeri**, M.S. Mahdavi. Leila - Genghis's Daughter, Fasle Panjom Publication, 2013.
- WORKSHOPS
- ◇ **Grad Cohort**, workshop for graduate women in Computer Science, San Diego **April 2016**
  - ◇ **From Napkin Print to 3D print**, FABWORKS, University of California Irvine **Feb. 2016**
  - ◇ **3D MAX Professional Development Training**, Tehran, Iran **June - Sep. 2012**
- LANGUAGE PROFICIENCY
- ◇ **Persian** (native), **English** (fluent), **Turkish** (fair), **Arabic** (fair)