

Ahmed Taha¹

Computer Science Department, University of Maryland, College Park 20740.
E-mail: ahmdtaha@cs.umd.edu Phone Number: +1 (301) 256-6275
Website: <http://www.cs.umd.edu/~ahmdtaha/>

Research Interests

Computer Vision, Deep Learning, Machine Learning, Artificial intelligence.

Technical Skills

Tensorflow, Python, Keras, PyTorch, JAVA, MATLAB, mex files.

Education

University of Maryland GPA: 4.0 / 4.0 Sep 2015 - Present
Ph.D. Student in Computer Science Advisor: Prof. Larry Davis.

Arab Academy For Science And Technology Dec 2011 - Jan 2014
Master Degree in business Administration - MBA GPA: 3.83 / 4.0.

Alexandria University, Egypt GPA: 3.81/4.0 Sept 2004 - July 2009
B.S., Computer and Systems Engineering Ranked 8th

Alexandria University, Egypt GPA 3.66/4.0 Sept 2011 - Aug 2015
Studied Mathematic Engineering. Advisor: Dr. Marwan Torki.

Publications

- [C5] **Taha, Ahmed** and Lo, Pechin and Li, Junning and Zhao, Tao. Convolution Networks for Kidney Vessels Segmentation from CT-Volumes. International Conference on Medical Image Computing and Computer-Assisted Intervention (**MICCAI2018**)
- [C4] Li, Junning and Lo, Pechin and **Taha, Ahmed** and Wu, Hang and Zhao, Tao. Segmentation of Renal Structures for Image-Guided Surgery. International Conference on Medical Image Computing and Computer-Assisted Intervention (**MICCAI2018**)
- [C3] **Taha, Ahmed** and Meshry, Moustafa and Yang, Xitong and Chen, Yi-Ting and Davis, Larry. Two Stream Self-Supervised Learning for Action Recognition
Computer Vision and Pattern Recognition Workshop (**CVPRW2018**)
- [C2] **Taha, Ahmed** and Torki, Marwan. Seeded laplacian: An interactive image segmentation approach using eigenfunctions
IEEE International Conference on Image Processing (**ICIP2015**)

¹Last Updated: November 2018

- [C1] Meshry, Moustafa and **Taha, Ahmed** and Torki, Marwan. Multi-Modality Feature Transform: An Interactive Image Segmentation Approach. The British Machine Vision Conference (**BMVC2015**).

Employment

Summer 2018	Research Assistant	University of Maryland
Summer 2017	Medical Image Analysis/Machine Learning Intern	Intuitive Surgical Inc
Summer 2016	Emerging Graphics Group Intern	Adobe Systems Inc

Teaching

Teaching Assistant	University of Maryland (6 Semesters)
	CMSC132 (Object-Oriented Programming II - Using JAVA)
	CMSC216 (Introduction to Computer Systems - Using C)
	CMSC420 (Data Structures - Using JAVA)
	CMSC426 (Computer Vision - Using PYTHON)

Awards and Honors

- [AW6] Gifted unrestricted **2500\$** from Adobe Systems, Inc.
- [AW5] University of Maryland Graduate School Deans Fellowship, 2015 and 2016
- [AW4] Awarded **four** successive times in college for the Excellent grade.
- [AW3] Passing round one in **Microsoft Imagine Cup contest 2008**.
- [AW2] Team has been chosen as one of the **Young Innovators Awards(YIA)** Program winners for the academic year 2008/2009.
- [AW1] Graduation project was chosen **2nd best graduate project** by Alexandria University for year 2008/2009.

Research Experience

- [R4] [2018] While sponsored by **Honda Research Institute**, explore self-supervised learning, ego-motion action embedding, multi-modal fusion, conditional and Bayesian retrieval uncertainty for autonomous navigation. Mentor: Yi-Ting.
- [R3] [2017] During **Intuitive Surgical** internship, develop robust algorithms to segment key anatomical structures from 3d volumetric images, in a fully automatic and semi-automatic fashion. Supervisor: Tao Zhao.
- [R2] [2016] During **Adobe Internship**, [develop a new selection\segmentation tool](#) through patch matching. Supervisor: Stephen Schiller.
- [R1] [2015] Develop an approach for solving interactive image segmentation problem. The approach supports different user annotation forms like scribble, trimaps, tight contour and bounding box. Advisor: Marwan Torki.

Languages: Arabic (Native Language), and English (Very Good)