

# SAEED S. ALAHMARI

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## RESEARCH INTEREST

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My research interests include Computer Vision, Machine Learning, Deep Learning, Medical Images Processing, and Stereology.

## EDUCATION

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**University of South Florida, Tampa, FL, USA** *August 2015 - Present*  
Ph.D in Computer Science  
Department of Computer Science and Engineering  
Dissertation title: "Active Deep Learning Method to Automate Unbiased Stereology Cell Counting"  
Committee: Dmitry goldgof, Lawrence O. Hall, Robert Gillies, Nasir Ghani, Rangachar Kasturi, and Peter R. Mouton

**University of Dayton, Dayton, OH, USA** *January 2013 - May 2015*  
Master degree of Computer Science.

**King Khalid University, Abha, Saudi Arabia** *Aug 2007 - December 2010*  
Bachelor degree of Computer Science. *cum laude honor*

## WORK EXPERIENCE

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**Research Assistant, University of South Florida** *June 2018 - Present*  
Supervisors: Prof. Dmitry Goldgof and Prof. Lawrence Hall

- Built and evaluated deep learning models to automate unbiased stereology cell counting in stained microscopy images.
- Designed active deep learning-based method to leverage unlabeled data.
- Studied deep learning model result's variations and reproducibility.

**Research internship, SRC Biosciences-Tampa, FL** *June 2019 - Aug 2019*  
Supervisor: Prof. Peter R. Mouton

- Built and deployed Python-based annotation tool called: Video Disector Tool (VDT) for unbiased stereology microscopy images.
- Built modules using C++ to integrate Zeiss camera to Stereology software.

**Teaching Assistant, University of South Florida** *May 2017 - June 2018*  
Courses: User-Level Linux Intro for IT, Analysis of Algorithms, and Program Design.

- Attended classes to help students with class activities.
- Graded assignments and programming projects.
- Proctored and graded exams.
- Mentored students weekly at CSE programming resources center.

**Teaching Assistant, University of Dayton, Ohio** *January 2014 - May 2015*  
Course: Data structures

- Graded assignments and programming projects.
- Helped students on their programming projects during office hours.

## HONORS AND AWARDS

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- Academic Scholarship, Najran University - Saudi Arabia *January 2011 - present*
- Research excellence honor, The Florida High Tech Corridor - Florida, USA *April 2019*
- Bachelor degree with Cum Laude honor, King Khalid University - Saudi Arabia *December 2010*

## CARRIER OBJECTIVE

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To obtain a postdoctoral position in the field of Artificial Intelligent and Computer Vision.

## PUBLICATIONS

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- **Alahmari, S. S.**, Goldgof, D., Hall, L. O., & Mouton, P. R. (2019, October). Automatic Cell Counting using Active Deep Learning and Unbiased Stereology. In 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC) (pp. 1708-1713). IEEE.
- Dave, P., Goldgof, D., Hall, L. O., **Alahmari, S.**, & Mouton, P. R. (2019). NOVEL STAIN SEPARATION METHOD FOR AUTOMATIC STEREOLOGY OF IMMUNOSTAINED TISSUE SECTIONS. *Innovation in Aging*, 3(Suppl 1), S256.
- **Alahmari, S. S.**, Goldgof, D., Hall, L., Phoulady, H. A., Patel, R. H., & Mouton, P. R. (2019). Automated Cell Counts on Tissue Sections by Deep Learning and Unbiased Stereology. *Journal of chemical neuroanatomy*, 96, 94-101.
- **Alahmari, S. S.**, Cherezov, D., Goldgof, D. B., Hall, L. O., Gillies, R. J., & Schabath, M. B. (2018). Delta Radiomics Improves Pulmonary Nodule Malignancy Prediction in Lung Cancer Screening. *IEEE Access*, 6, 77796-77806.
- **Alahmari, S.**, Goldgof, D., Hall, L., Dave, P., Phoulady, H. A., & Mouton, P. (2018, December). Iterative Deep Learning Based Unbiased Stereology With Human-in-the-Loop. In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA) (pp. 665-670). IEEE.

## PROFESSIONAL ACTIVITIES

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### Reviewer:

- IEEE access journal (2020)
- European Radiology Journal (2019)
- International Conference of Machine Learning and Application (2019)
- International Symposium of Technology and Society (2019)
- Journal of Thoracic Disease (2019)

### Co-reviewer:

- International Conference of Machine Learning (2018)

### Member of Conference Program Committee:

- International Conference of Machine Learning and Application (2019)
- International Symposium of Technology and Society (2019)

### Volunteering in Organizing Events:

- 10th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS) (2019), Tampa-FL

## Grant Writing:

- STTR Phase 2 Grant *Received Jun 2019*  
with Prof. Mouton, Prof. Hall, and Prof. Goldgof
- Nvidia Computing Equipment Grant *Received November 2018*  
with Hunter Morera, Chih-Yun Pai, and Prof. Goldgof
- STTR Phase 1 Grant *Received February 2018*  
with Prof. Mouton, Prof. Hall, and Prof. Goldgof

## Professional Development:

- Preparing for College Teaching course *Spring 2020*
- Teaching Assistant Training *Fall 2017*

## TECHNICAL STRENGTHS

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<b>Programming Languages</b>	C, C++, Python, Swift
<b>Markup languages</b>	Latex, HTML
<b>Operating Systems</b>	Windows, Linux, Apple MacOS
<b>API and Platforms</b>	Tensorflow, Keras, Scikit-learn, OpenCV, Pytorch
<b>Others</b>	Weka, Stereology

## COURSES

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### Graduate level courses:

Digital Image Processing, Computer Vision, Data Mining, Deep Neural Network, Artificial Intelligence, Analysis of Algorithms, Operating Systems, Medical Images Processing.

### MooC courses:

Machine Learning (Stanford University course provided on Coursera), Deep Learning Speciality courses (Deeplearning.ai provided in Coursera).

## REFERENCES

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- **Dmitry Goldgof, Distinguished Professor and Vice Chair**  
Department of Computer Science and Engineering  
University of South Florida  
(813)974-4055, goldgof@mail.usf.edu
- **Lawerence Hall, Distinguished Professor**  
Department of Computer Science and Engineering  
University of South Florida  
(813)974-4195, lohall@mail.usf.edu
- **Peter R. Mouton, Professor**  
Department of Computer Science and Engineering  
University of South Florida  
peter@disector.com, pmouton@health.usf.edu