

CONTACT INFO.	8300 El Mundo St. Unit 703, Houston, TX, 77054	(832) 444-7994 jahandar.jahani@gmail.com https://jjahanip.github.io
SUMMARY OF QUALIFICATIONS	<ul style="list-style-type: none">• Hands on experience with machine learning and deep learning techniques using famous libraries such as TensorFlow.• Expert in design of user-friendly Graphical User Interfaces (GUIs).• Hands on experience with massive datasets	
PROFESSIONAL EXPERIENCE	<div><div>I. University of Houston, Houston, Texas</div><div>Aug 2015 – Present</div><div>Research Assistant</div><ul style="list-style-type: none">• Discover and analyze patterns using clustering techniques such as hierarchical clustering and the Dirichlet process mixture models in massive biomedical dataset of size >300GB• Utilize deep networks such as ScatNet. to extract translation invariant features• Validate and edit the segmentation results of whole brain images using object detection methods such as Faster-RCNN with >90% recall to increase the accuracy of the segmentation algorithms• Use pattern recognition methods such as outlier detection to detect errors with AUC >70%• Design interactive GUI with user to visualize the mapping between the analysis results and the raw data• Use object detection methods to detect and classify cells in whole rat brain images with detection accuracy of >90%</div> <div><div>II. National Institue of Health</div><div>May 2018 – Aug 2018</div><div>Pre-Doc Fellow</div><ul style="list-style-type: none">• Develop algorithms for unmixing immunohistochemistry multi-spectral images• Develop cell detection pipeline for whole brain image datasets with AUC >95%</div> <div><div>III. Imam Khomeini International University, Qazvin, IRI</div><div>Sep 2011 – Jan 2012</div><div>Lab. Designer and Instructor</div><ul style="list-style-type: none">• Design of instruction, quizzes, utilization and presentation of microwave laboratory• Taught related experiments of the microwave communication course to more than 50 students</div>	
EDUCATION	<div><div>University of Houston, Houston, TX</div><div>Ph.D., Electrical Engineering; GPA 4</div><div>Expected May 2019</div><div><i>Relevant Courses:</i> Stochastic Processes, Machine Learning, Data Mining, Bio-photonics, GPU Computing, Automatic Learning (Deep Learning)</div></div> <div><div>Isfahan University of Technology, Isfahan, IRI</div><div>M.S., Electrical Engineering</div><div>Sep 2012 – Jul 2014</div></div>	
TECHNICAL SKILLS	<ul style="list-style-type: none">• Programming: Python MATLAB C++ CUDA CMake (Familiar with: R and Lua)• Tools and Libraries: TensorFlow OpenCV Qt Deep Learning toolkit (MATLAB)• Environments and Editors: Microsoft Visual Studio PyCharm Jupyter Notebook Linux• Version Control: Git• Typesetting Applications: Microsoft Office, L^AT_EX.• Bilingual: English, Persian.	
PUBLICATIONS	<ul style="list-style-type: none">• S. Berisha, M. Lotfollahi, <u>J. Jahanipour</u>, I. Gurcan, M. Walsh, R. Bhargava, H. V. Nguyen, D. Mayerich. “Deep learning for FTIR histology: leveraging spatialand spectral features with convolutional neural networks ” Analyst, Submitted• S. Ahmadian, B. Vahidi, <u>J. Jahanipour</u>, S.H. Hosseinian, H. Rastegar “Price Restricted Optimal Bidding Model Using Derated Sensitivity Factors by Considering Risk Concept." IET Generation, Transmission & Distribution. doi: 10.2 (2016): 310-324.• <u>J. Jahanipour</u>, K. Hajipour “Design of a NLFM Radar Signal by Different Use of Price Model." 17th Iranian student conference on electrical engineering.	

POSTER PRESENTATIONS	<ul style="list-style-type: none"> • J. Jahanipour, X. Li, A. Sedlock, B. Roysam , J. Smith, D. Maric. “Quantitative In-situ Image Analysis in Highly Multiplexed Fluorescence IHC Image Datasets of Rat Brain” NINDS DIR Scientific Retreat • J. Jahanipour, X. Li, H.Lu, J. Redell, P. Dash, D. Maric, B. Roysam. “Computational profiling of astrocytes’ activation patterns after mild fluid percussion injury” Mission Connect Annual Scientific Symposium • J. Jahanipour, H.V.Nguyen, B. Roysam. “Deep Hierarchical Profiling & Pattern Discovery: Application to Whole Brain Rat Slices After Traumatic Brain Injury” Graduate Research Conference, ECE, UH
INVITED TALKS & WORKSHOPS	<ul style="list-style-type: none"> • "Applications of Deep Learning in Biomedical Datasets and Workshop on Deep Learning with TensorFlow" IEEE EMBS Houston Chapter Dec 2017 • "Deep Learning with TensorFlow Workshop" Organized by Prof. Azencott (UH Mathematics) Spring 2018 • "Deep Learning with TensorFlow Workshop" Organized by Center for Advanced Computing and Data Science Spring 2018
TEACHING EXPERIENCE	<p>Teaching Assistant</p> <ul style="list-style-type: none"> • Electronics Lab, University of Houston Fall 2015 - Spring 2016 <p>Instructor</p> <ul style="list-style-type: none"> • Microwave Lab, Imam Khomeini International University Fall 2011 - Spring 2012
PROFESSIONAL SERVICE	<ul style="list-style-type: none"> • Reviewer of IEEE International Symposium on Biomedical Imaging (ISBI) • Reviewer of Journal of Modern Power Systems and Clear Energy (MPCE)
HONORS & AWARDS	<ul style="list-style-type: none"> • 2nd best poster presentation award in TBI area - Mission Connect Annual Scientific Symposium 2017 • Fellow at Center for Advanced Computing and Data Systems at University of Houston 2017 - 2018 • Graduate Tuition Fellowship, University of Houston College of Engineering 2015 - 2018 • Presidential Fellowship, University of Houston College of Engineering 2015 - 2017 • Ranked top 5% in nationwide electrical engineering Graduate entrance exam in Iran 2012
ACTIVITIES & HOBBIES	<ul style="list-style-type: none"> • Vice president of Iranian Community at University of Houston organization for two years from 2015 • Organizing cultural events such as Nowrooz celebration and folklore music concerts • Playing piano