

CONTACT INFO.	8300 El Mundo St. Unit 703, Houston, TX, 77054 (832) 444-7994 jahandar.jahani@gmail.com	<a href="https://github.com/jjahanip">jjahanip.github.io</a> <a href="http://www.easy-tensorflow.com">www.easy-tensorflow.com</a>
SUMMARY OF QUALIFICATIONS	<ul style="list-style-type: none"><li>• Hands on experience with machine learning and deep learning techniques using famous libraries such as TensorFlow.</li><li>• Expert in design of user-friendly Graphical User Interfaces (GUIs).</li><li>• Hands on experience with massive datasets</li></ul>	
PROFESSIONAL EXPERIENCE	<div><div><b>I. University of Houston, Houston, Texas</b> <b>Research Assistant</b></div><div>Aug 2015 – Present</div><ul style="list-style-type: none"><li>• Discover and analyze patterns using clustering techniques such as hierarchical clustering and the Dirichlet process mixture models in massive biomedical dataset of size &gt;300GB</li><li>• Utilize deep networks such as ScatNet. to extract translation invariant features</li><li>• Validate and edit the segmentation results of whole brain images using object detection methods such as Faster-RCNN with &gt;90% recall to increase the accuracy of the segmentation algorithms</li><li>• Use pattern recognition methods such as outlier detection to detect errors with AUC &gt;70%</li><li>• Design interactive GUI with user to visualize the mapping between the analysis results and the raw data</li><li>• Use object detection methods to detect and classify cells in whole rat brain images with detection accuracy of &gt;90%</li></ul></div> <div><div><b>II. National Institute of Health</b> <b>Pre-Doc Fellow</b></div><div>May 2018 – Aug 2018</div><ul style="list-style-type: none"><li>• Develop algorithms for unmixing immunohistochemistry multi-spectral images</li><li>• Develop cell detection pipeline for whole brain image datasets with AUC &gt;95%</li></ul></div> <div><div><b>III. Imam Khomeini International University, Qazvin, IRI</b> <b>Lab. Designer and Instructor</b></div><div>Sep 2011 – Jan 2012</div><ul style="list-style-type: none"><li>• Design of instruction, quizzes, utilization and presentation of microwave laboratory</li><li>• Taught related experiments of the microwave communication course to more than 50 students</li></ul></div>	
EDUCATION	<div><div><b>University of Houston, Houston, TX</b> Ph.D., Electrical Engineering; <b>GPA 4</b> <i>Relevant Courses:</i> Stochastic Processes, Machine Learning, Data Mining, Bio-photonics, GPU Computing, Automatic Learning (Deep Learning)</div><div>Expected May 2019</div></div> <div><div><b>Isfahan University of Technology, Isfahan, IRI</b> M.S., Electrical Engineering</div><div>Sep 2012 – Jul 2014</div></div>	
TECHNICAL SKILLS	<ul style="list-style-type: none"><li>• <b>Programming:</b> Python   MATLAB   C++   CUDA   CMake (Familiar with: R and Lua)</li><li>• <b>Tools and Libraries:</b> TensorFlow   OpenCV   Qt   Deep Learning toolkit (MATLAB)</li><li>• <b>Environments and Editors:</b> Microsoft Visual Studio   PyCharm   Jupyter Notebook   Linux</li><li>• <b>Version Control:</b> Git</li><li>• <b>Typesetting Applications:</b> Microsoft Office, L<sup>A</sup>T<sub>E</sub>X.</li><li>• <b>Bilingual:</b> English, Persian.</li></ul>	
PUBLICATIONS	<ul style="list-style-type: none"><li>• 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 spatial and spectral features with convolutional neural networks" Analyst, doi: 10.1039/C8AN01495G</li><li>• S. Ahmadian, B. Vahidi, <u>J. Jahanipour</u>, S.H. Hosseini, H. Rastegar "Price Restricted Optimal Bidding Model Using Derated Sensitivity Factors by Considering Risk Concept." IET Generation, Transmission &amp; Distribution. doi: 10.2 (2016): 310-324.</li><li>• <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.</li></ul>	

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