

NOOR NAKHAEI

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RESEARCH INTERESTS

Artificial Intelligence, Computer Vision, Machine Learning, Deep Learning, Medical Image Analysis

EDUCATION

University of California, Los Angeles (UCLA)

2019–present

Ph.D. Candidate in Computer Science, Advisor: Professor Demetri Terzopoulos

Amirkabir University of Technology (Tehran Polytechnic)

2013–2017

B.Sc. in Computer Engineering, Advisor: Professor Ehsan Nazerfard

PUBLICATIONS

3. “[Weakly-Supervised Convolutional Neural Networks for Vessel Segmentation in Cerebral Angiography](#),” A. Vepa, A. Choi, **N. Nakhaei**, et al., and Fabien Scalzo, in *Proc. IEEE International Conference on Applications in Computer Vision (WACV 2022)*, January 2022, Waikoloa, Hawaii, pgs. 585–594.
2. “[Spatial Matching of Magnified 2D Mammography Images and Specimen Radiographs: Towards Improved Characterization of Suspicious Microcalcifications](#),” **N. Nakhaei**, C. Marasinou, A. Omigbodun, N. Capiro, B. Li, A. Hoyt, and W. Hsu, *Proc. SPIE 11597, Medical Imaging 2021: Computer-Aided Diagnosis*, February 2021, Online, pgs. 1159727-1–6.
1. “[Segmentation of Breast Microcalcifications: A Multi-Scale Approach](#),” C. Marasinou, B. Li, J. Paige, A. Omigbodun, **N. Nakhaei**, et al., and W. Hsu, *arXiv preprint (arXiv:2102.00754)*, pgs. 1–10.

RESEARCH EXPERIENCE

- Segmentation of Diffusion Tensor Images (DTI) (2021–present)
Under the supervision of Professor Demetri Terzopoulos in the UCLA Computer Science Department
- External Evaluation of 11 AI Algorithms for Assessing Screening Mammograms (2021–present)
Under the supervision of Professor William Hsu in the UCLA Department of Radiological Sciences
- Improving the characterization of suspicious microcalcifications (2019–2021)
Under the supervision of Professor William Hsu in the UCLA Department of Radiological Sciences

TEACHING EXPERIENCE

- Teaching Assistant — UCLA Computer Science Department
 3. Introduction to Computer Graphics (CS 174A), Fall 2021, winter 2022, Instructor: Dr. Asish Law
 2. Introduction to Algorithms (CS 180), Spring 2021, Instructor: Professor Cho-Jui Hsieh
 1. Current Topics in Data Structure (CS 249), Fall 2020, Instructor: Dr. H. Shirani-Mehr

WORKING EXPERIENCE

- Web Developer — Neesa Group, Tehran, Iran
- Summer Internship — IoT Academy, Tehran, Iran

SKILLS

Python, R, C, Shell Scripting, C++, Pytorch, Tensorflow, Matlab, Scikit-learn, Weka, MySQL, HTML, CSS, JavaScript, L^AT_EX

EXTRA CURRICULAR ACTIVITIES

- Director of Campus Relations, **Graduate Student Associations (GSA)**
- Vice President, **Computer Science Graduate Student Associations (CS-GSA)**