

CONTACT INFORMATION	427 Richard Hall, 360 Huntington Ave., Northeastern University, Boston, MA, U.S. Homepage: https://yin-yu.github.io/	yin.yu1@husky.neu.edu Tel: +1-(857)971-0842
RESEARCH INTERESTS	Computer Vision: image synthesis (face super-resolution & frontalization); visual recognition (face alignment & expression recognition). Machine Learning: deep learning. Signal Processing: biosignal processing and fusion.	
EDUCATION	Northeastern University , Boston, USA	Spring 2019 – Now
	Ph.D., Department of ECE, College of Engineering, <i>Expected:</i> Spring 2023	
	<ul style="list-style-type: none"> • Major in Computer Engineering • Advisors: <i>Prof. Yun Raymond Fu</i> 	
	M.S., Department of ECE, College of Engineering	Fall 2016 – Fall 2018
	<ul style="list-style-type: none"> • Major in Electrical and Computer Engineering • Thesis Topic: <i>Affective Pose: Facial & Physiology Expression of Emotion</i> • Advisor: <i>Prof. Sarah Ostadabbas</i> • GPA: 3.8/4.0 	
	Wuhan University of Technology , Wuhan, China	Sep 2012 – Jul 2016
	B.S., School of Electronic Engineering	
	<ul style="list-style-type: none"> • Major in Electrical and Information Engineering • GPA: 3.7/4.0 	
RESEARCH EXPERIENCE	SMILE lab, Northeastern University, Boston, USA	Spring 2019 – Now
	Research Assistant. Advisor: <i>Prof. Yun Raymond Fu</i>	
	Projects: 1. Deep learning for face hallucination and alignment. 2. High-resolution frontal face synthesis.	
	ACLab, Northeastern University, Boston, USA	Sep 2016 – Dec 2018
	Research Assistant. Advisor: <i>Prof. Sarah Ostadabbas</i>	
	Projects: 1. Facial expression and biosignal fusion to decode affective experience. 2. Biosignal processing tool for machine learning. 3. Multimodal physiological signals fusion to predict psychological threat vs. challenge. 4. Human pose estimation using deep learning.	
	Carseeing.AI (startup company), Beijing, China	May 2018 – Sept 2018
	Research Intern. Mentors: <i>Dr. Zhou Liu</i>	
	Projects: Hand gesture recognition using ToF sensor.	
	Wuhan University of Technology, China	Sep 2012 – Jun 2016
	Research Assistant. Advisor: <i>Prof. Dejun Liu</i>	
	Projects: Millimeter-wave radar signal processing for vehicle recognition devices.	
PREPRINTS	<ol style="list-style-type: none"> 1. Yu Yin, Joseph Robinson, Songyao Jiang, Yue Bai, Can Qin, and Yun Fu, “SuperFace: From Low-resolution Image to High-resolution Frontal Face Sythesis,” <i>submitted to IEEE Computer Vision and Pattern Recognition (CVPR 2020)</i> 2. Yu Yin, Songyao Jiang, Joseph Robinson, and Yun Fu, “Dual-Attention GAN for Large-Pose Face Frontalization,” <i>submitted to IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020)</i> 	

	<ol style="list-style-type: none"> Can Qin, Lichen Wang, Qianqian Ma, Yu Yin, Huan Wang, and Yun Fu, “Unity of Opposites: A Holistic Approach to Semi-supervised Domain Adaptation,” <i>submitted to IEEE Computer Vision and Pattern Recognition (CVPR 2020)</i> Yue Bai, Lichen Wang, Yunyu Liu, Yu Yin, and Yun Fu, “Long-Short Dual-Side AutoEncoder for Human Motion Segmentation,” <i>submitted to IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020)</i>
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"> Yu Yin, Joseph Robinson, Yulun Zhang and Yun Fu, “Joint Super-Resolution and Alignment of Tiny Faces,” <i>AAAI Conference on Artificial Intelligence (AAAI 2020)</i>. Yu Yin, Mohsen Nabian, Sarah Ostadabbas, Miolin Fan, and ChunAn Chou, “Facial Expression and Peripheral Physiology Fusion to Decode Individualized Affective Experience,” <i>Affective Computing Workshop of the International Joint Conferences on Artificial Intelligence (IJCAI Workshop 2018)</i>. Yu Yin, Mohsen Nabian, Athena Nouhi, and Sarah Ostadabbas, “A Biosignal-Specific Processing Tool for Machine Learning and Pattern Recognition,” <i>IEEE Healthcare Innovations and Point-of-Care Technologies (HI-POCT 2017)</i>.
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> Shuangjun Liu, Yu Yin, and Sarah Ostadabbas, “In-Bed Pose Estimation: Deep Learning with Shallow Dataset,” <i>IEEE Journal of Translational Engineering in Health and Medicine (JTEHM)</i>, vol. 7, no. 1, pp. 1-12, Jan. 2019. Aya Khalaf, Mohsen Nabian, Miaolin Fan, Yu Yin, Jolie Wormwood, Erika Siegel, Karen Quigley, Murat Akcakaya, ChunAn Chou, and Sarah Ostadabbas, “Analysis of Multimodal Physiological Signals Within and Across Individuals to Predict Psychological Threat vs. Challenge,” <i>Expert Systems With Applications</i>, Aug. 2019. Mohsen Nabian, Yu Yin, Jolie Wormwood, Karen S. Quigley, Lisa F. Barrett, and Sarah Ostadabbas, “An Open-Source Feature Extraction Tool for the Analysis of Peripheral Physiological Data,” <i>IEEE Journal of Translational Engineering in Health and Medicine (JTEHM)</i>, vol. 6, Oct. 2018.
HONORS AND AWARDS	<ul style="list-style-type: none"> Excellent Bachelor Thesis of Wuhan University of Technology, 2016 Third Prize Scholarship of Wuhan University of Technology, 2013, 2014, 2015
PROFESSIONAL ACTIVITIES	<p>Oral Presentations or Posters at Conferences</p> <ul style="list-style-type: none"> Conference on Healthcare Innovations and Point-of-Care Technologies (HI-POCT), Washington, D.C 2017 Affective Computing Workshop of the International Joint Conferences on Artificial Intelligence (IJCAI), Stockholm, Sweden 2018
SKILLS	<ul style="list-style-type: none"> Programming: Matlab, C/C++, Python, L^AT_EX, Visual Studio, OpenCV, Linux.