Y. Raymond Fu

COE Distinguished Professor, Northeastern University, Boston

Associate Department Chair for Research, Department of Electrical and Computer Engineering

University of Illinois at Urbana-Champaign	Electrical and Computer Engineering (ECE)	Ph.D.	2008
University of Illinois at Urbana-Champaign	Statistics	M.S.	2007
Xi'an Jiaotong University, China	Pattern Recognition & Intelligent Systems	M.Eng.	2004
Xi'an Jiaotong University, China	Information Engineering (with honors)	B.Eng.	2001

Web: http://www.ece.neu.edu/~yunfu/

Research Interests: Computational Intelligence, Machine Learning, Neural Computing, and Visual Intelligence.

Appointments

2025-now	Associate Department Chair for Research, Department of l	ECE, Northeastern University, Boston	
2019-now	COE Distinguished Professor, ECE and Computer Science	Northeastern University, Boston	
2019-now	Professor, ECE and Khoury College of Computer Science	ee, Northeastern University, Boston	
2020-now	Founder and President,	Ainnovation Labs, Inc., Boston	
2023-2024	Co-Founder and Chief Scientific Officer,	Bithuman, Inc., Boston	
2017-2020 Senior Vice President of Technology Innovation, Shiseido Americas (Stock 4911: Tokyo), Boston			
2015-2019	Associate Professor, ECE and Computer and Information Science Northeastern University, Boston		
2012-2015	Assistant Professor, ECE and Computer and Information Science Northeastern University, Boston		
2014-2018	Adjunct Professor, Electronic and Information Engineeri	ing Xi'an Jiaotong University, China	
2010-2012	Assistant Professor, Computer Science and Engineering	SUNY at Buffalo, NY	
2009-2010	Lecturer, Computer Science	Tufts University, Medford, MA	
2008-2010	Scientist, Computer Vision and Pattern Recognition	BBN Technologies, Cambridge, MA	
2007-2008	Beckman Graduate Fellow and ECE RA Uni	iversity of Illinois at Urbana-Champaign	

Publications

In total, **500+ peer-reviewed technical publications**: 150+ journal papers; 300+ conference papers; 30+ book & chapters; 50+ patents. **Over 56,800 Citations (Google)**, with impact factors **h-index 105** and **i10-index 389**. Selected 5 publications for "bio-inspired age estimation" are as follows:

- [1] Y Zhang, Y Tian, Y Kong, B Zhong, and Y. Fu, "Residual dense network for image super-resolution," *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), 2018. (Citation 5898)
- [2] Y Zhang, K Li, K Li, L Wang, B Zhong and Y. Fu, "Image super-resolution using very deep residual channel attention networks", ECCV, 2018. (Citation 6899)
- [3] Y. Wu, Y. Chen, L. Wang, Y. Ye, Z. Liu, Y. Guo, and Y. Fu, "Large Scale Incremental Learning," *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), 2019. (Citation 1980);
- [4] Y. Fu, G. Guo, and T.S. Huang, Age Synthesis and Estimation via Faces: A Survey, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (T-PAMI), vol. 32 no. 11, pp. 1955-1976, 2010. (Citation 1000)
- [5] Y. Kong, Y. Fu, Human action recognition and prediction: A survey, *International Journal of Computer Vision* (IJCV), vol. 130, no. 5, pp. 1366-1401, 2022. (Citation 1002)

Awards and Honors (100+)

- ♦ AAAI Fellow, Association for the Advancement of Artificial Intelligence (AAAI), 2025;
- ♦ IEEE Computer Science Society Edward J. McCluskey Technical Achievement Award, 2024;
- ♦ AIMBE Fellow, American Institute for Medical and Biological Engineering, 2024;
- ♦ *EASA Member*, Member of European Academy of Sciences and Arts, 2023;
- ♦ NAI Fellow, National Academy of Inventors, 2023;
- ♦ Member of Academia Europaea (MAE), 2022
- AAAS Fellow, American Association for the Advancement of Science (AAAS) 2022
- ♦ IEEE Fellow, Institute of Electrical and Electronics Engineers (IEEE) 2018
- ♦ OSA Fellow, The Optical Society, 2019
- ♦ SPIE Fellow, International Society for Optics and Photonics, 2018
- ♦ IAPR Fellow, International Association for Pattern Recognition, 2016
- ♦ ACM Distinguished Member, Association for Computing Machinery(ACM), 2018

- ♦ INNS Young Investigator Award, International Neural Networks Society, 2014
- ♦ Member of ACM Future of Computing Academy, 2017
- ♦ Member of Global Young Academy (GYA), 2016
- *♦ IEEE CIS Outstanding Early Career Award*, 2016
- ♦ Amazon AWS Machine Learning Research Award, 2020
- ♦ JPMorgan Chase AI Research Faculty Research Awards, 2020
- ♦ Grainger Foundation Frontiers of Engineering Award, 2016
- **♦ National Academy of Engineering US Frontiers of Engineering**, 2015
- ♦ Nominee of *Presidential Early Career Award for Scientists and Engineers* (PECASE), 2015
- ♦ ONR Young Investigator Award, Office of Naval Research, 2014
- ♦ ARO Young Investigator Award, Army Research Office, 2014
- ♦ Søren Buus Outstanding Research Award, Northeastern University, 2016
- ♦ *First Place Award*, 2016 ACM Multimedia MSR Challenge of Recognizing One Million Celebrities in the Real World Grand Challenge.
- ♦ First Place Ranking, 2017 ACM Multimedia MSR Challenge of Recognizing One Million Celebrities in the Real World Grand Challenge.
- ♦ First Place Winner, CLEAR'07 Workshop, 3D Head Pose Estimation Evaluation, 2007
- ♦ IEEE Transactions on Affective Computing Best Paper Award, 2017
- *♦ SPIE Lockheed Martin Best Paper Award*, 2016
- ♦ Outstanding Translational Research Award, Northeastern University, College of Engineering, 2018
- ♦ College of Engineering Faculty Fellows, Northeastern University, 2017
- *♦ Adobe Faculty Research Award*, 2015
- ♦ Best Paper Award, SIAM International Conference on Data Mining (SDM), 2014
- ♦ Best Paper Award Candidate, IEEE Int'l Conf. on Multimedia & Expo(ICME), 2014(4 out of 716 submissions)
- ♦ Best Student Paper Honorable Mention Award, IEEE Int'l Conf. on Automatic Face and Gesture Recog., 2013
- ♦ TCSVT Best Associate Editor Award, IEEE Transactions on Circuits & Systems for Video Technology, 2012
- ♦ LSVA Best Paper Award, IEEE ICDM Workshop on Large Scale Visual Analytics (LSVA), 2011
- ♦ IC Postdoctoral Research Fellowship Award, National Geospatial-Intelligence Agency, 2011
- ♦ Best Reviewer Award, IEEE International Conference on Multimedia and Expo (ICME), 2011
- ♦ Google Faculty Research Award, 2010
- ♦ ITESOFT Best Paper Award, IAPR Int'l Conf. on the Frontiers of Handwriting Recognition (ICFHR), 2010
- ♦ M. E. Van Valkenburg Graduate Research Award, 2008
- ♦ DoCoMo USA Labs Innovative Paper Award, IEEE Int'l Conference on Image Processing (ICIP), 2007
- ♦ Beckman Graduate Fellowship, Arnold and Mabel Beckman Foundation, 2007~2008
- ♦ Chinese Government Award for Outstanding Self-financed Students Abroad, Chinese Government, 2007-2008
- ♦ First Place Winner, CLEAR'07 Workshop, 3D Head Pose Estimation Evaluation, 2007
- ♦ HP Silver Medal and Scholarship, Hewlett-Packard Company, USA, 2003
- ♦ Rockwell Automation Master of Science Scholarship, Rockwell Automation, USA, 2002
- ♦ Keynote Speaker (invited), Korea University, Dept. of Brain and Cognitive Engineering, Workshop on Human Activity Prediction for Video Surveillance Applications, 2015
- ♦ Keynote Speaker, Joint Conf. on Harmonious Human Machine Environment (HHME), 2011
- ♦ Entrepreneurship Honors and Awards
 - o Founder of Giaran. Shiseido Americas (Stock 4911:Tokyo) Acquires Giaran, Inc. 2017
 - o MassChallenge Boston Final List, 2017
 - Procter & Gamble Scholarship, 2017
 - o MIT Chief Platinum Winners, 2016
 - o Microsoft Innovative Award, 2015
 - o Mass Challenge, 2015
 - o MIT Innovation Initiative, 2015
 - o \$100K MIT Entrepreneurship Competition, 2015
 - o MIT Enterprise Forum, 2015
 - o First Prize of NECINA NEW Accelerator, 2015
 - o Lemelson-Illinois Student Prize, Finalist of UIUC, 2008
 - o GE Edison Cup, General Electric Fund, Technology Innovation Competition, 2002