Xi Yin

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Education

- **Ph.D.**, **Computer Science**, Michigan State University, USA *9/2013 – present*
  - Advisor: Xiaoming Liu
  - Committee: Xiaoming Liu (chair), Anil K. Jain, Arun Ross, Daniel Morris
  - Thesis: Representation Learning and Image Synthesis for Deep Face Recognition
  - GPA: 3.75 / 4.0
- **Bachelor**, **Electrical Engineering**, Wuhan University, China *9/2009 – 6/2013*
  - Advisor: Qinghu Chen
  - Thesis: Sparse Coding for Face Super-Resolution
  - GPA: 90 / 100

Internships

- **Research Intern**, Media Analytics Department, NEC Labs America *5/2017 – 8/2017*
  - Mentors: Xiang Yu, Manmohan Chandraker
  - Project: Feature Transfer Learning for Deep Face Recognition with Long-Tail Data
- **Research Intern**, National Laboratory of Pattern Recognition, Chinese Academy of Science *3/2013 – 5/2013*
  - Mentors: Zhen Lei, Stan Z. Li
  - Project: Sparse Coding for Face Super-Resolution

Publications

I have >150 citations according to Google Scholar, and my **h-index** is 8.

Peer-Reviewed Journal Papers:

1. Luan Tran, **Xi Yin**, Xiaoming Liu. "Representation Learning by Rotating Your Faces," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), major revision. arXiv
2. **Xi Yin**, Xiaoming Liu. "Multi-Task Convolutional Neural Network for Pose-Invariant Face Recognition," IEEE Transactions on Image Processing (TIP), Volumn 27, Issue 2, Pages 964-975, Feb. 2018. PDF
3. **Xi Yin**, Xiaoming Liu, Jin Chen, David Kramer. "Multi-Leaf Segmentation, Alignment, and Tracking from Fluorescence Plant Videos," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), DOI: 10.1109/TPAMI.2017.2728065. PDF
4. **Xi Yin***, Jeffrey Cruz*, Xiaoming Liu, Saif Imran, Daniel Morris, David Kramer, Jin Chen. "Multi-Modality Imagery Database for Plant Phenotyping," Machine Vision and Applications (MVA), Volumn 27, Issue 5, Pages 735-749, July 2016. (* equal contribution) PDF
5. Hanno Scharr, Massimo Minervini, Andrew French, Christian Klukas, David Kramer, Xiaoming Liu, Imanol Muntion, Jean-Michel Pape, Gerrit Polder, Danijela Vukadinovic, **Xi Yin**, Sotirios Tsaftaris. "Leaf Segmentation in Plant Phenotyping: A Collation Study," Machine Vision and Applications (MVA), Volumn 27, Issue 4, Pages 585-606, May 2016. PDF

Peer-Reviewed Conference Papers:

6. **Xi Yin**, Xiang Yu, Kihyuk Sohn, Xiaoming Liu, Manmohan Chandraker. "Feature Transfer Learning for Deep Face Recognition with Long-Tail Data," 2018, under review.
7. **Xi Yin**, Xiang Yu, Kihyuk Sohn, Xiaoming Liu, Manmohan Chandraker. "Towards Large-Pose Face Frontalization in the Wild," in *Proceedings of International Conference on Computer Vision (ICCV)*, 2017. (**Acceptance rate** 29%) PDF
8. Garrick Brazil, **Xi Yin**, Xiaoming Liu. "Illuminating Pedestrians via Simultaneous Detection and Segmentation," in *Proceedings of International Conference on Computer Vision (ICCV)*, 2017. (**Acceptance rate** 29%) PDF
9. Luan Tran, **Xi Yin**, Xiaoming Liu. "Disentangled Representation Learning GAN for Pose-Invariant Face Recognition," in *Proceedings of IEEE Computer Vision and Pattern Recognition (CVPR)*, 2017. (**Oral, Acceptance rate** 2.6%) PDF

10. **Xi Yin***, Amin Jourabloo*, Xiaoming Liu. "Attribute Preserved Face De-identification," in *Proceedings of the 8th IAPR International Conference on Biometrics (ICB)*, 2015. (* equal contribution) PDF
11. **Xi Yin**, Xiaoming Liu, Jin Chen, David Kramer. "Multi-Leaf Tracking from Fluorescence Plant Videos," in *Proceedings of IEEE International Conference on Image Processing (ICIP)*, 2014. (**Top 10% Paper Award**) PDF
12. **Xi Yin**, Xiaoming Liu, Jin Chen, David Kramer. "Multi-Leaf Alignment from Fluorescence Plant Images," in *Proceedings of IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2014. (**Best Student Paper Award**) PDF

Patents

- Xiaoming Liu, Luan Tran, **Xi Yin**. "Disentangled Representation Learning GAN for Pose-Invariant Face Recognition," U.S. Patent Application No. 62/560001. (undergoing licensing negotiation)

Invited Talks

- "Multi-Task Convolutional Neural Network for Controlled Face Recognition"
  Midwest Vision Workshop at Toyota Technological Institute at Chicago (TTIC), Apr. 2016.
- "Joint Multi-Leaf Segmentation, Alignment, and Tracking from Fluorescence Plant Videos"
  Tuesday Noon Seminar at MSU-DOE Plant Research Laboratory, Mar. 2015.
- "Multi-Leaf Alignment from Fluorescence Plant Images"
  Tuesday Noon Seminar at MSU-DOE Plant Research Laboratory, Feb. 2014.

Guest Lectures

- CSE803 Computer Vision: "Deep Learning for Vision", Michigan State University *10/2017*
- CSE803 Computer Vision: "Deep Learning for Vision", Michigan State University *10/2016*
- CSE803 Computer Vision: "Active Shape Models", Michigan State University *11/2015*
- CSE803 Computer Vision: "Introduction to Computer Vision", Michigan State University *9/2015*

Professional Services

- *Journal Reviews*: TPAMI, TIP, MVA, TAC, Neurocomputing
- *Conference Reviews*: CVPR, NIPS, ICCV, ECCV, ACCV, ICB, IJCB, FG, BETAS, WACV, 3DV

Background & Skills

- *Research Interests*: Computer Vision, Machine Learning, Image Processing, Face Recognition
- *Programming*: Python, C++, MATLAB, Lua, etc.
- *Tools*: Torch, TensorFlow, Caffe, OpenCV, LaTeX, etc.
- *Systems*: Linux (Ubuntu), OSX, Windows

Honors & Awards

- Fitch H. Beach Award Nominee *2018*
- Outstanding Graduate Student Award *2018*
- Dissertation Completion Fellowship of Michigan State University *2018*
- ICCV Doctoral Consortium Travel Award *2017*
- Michigan State University Travel Award *2017*
- 2nd Prize at Engineering Research Symposium of Michigan State University *2016, 2017*
- Research Fellowship of Michigan State University *2014, 2016*
- Top 10% Paper Award at ICIP 2014 *2014*
- Best Student Paper Award at WACV 2014 (3 out of 152 papers) *2014*
- 3rd Prize of North China Mathematical Contest in Modeling *2012*
- 2nd Prize of Central China Mathematical Contest in Modeling *2011*
- Outstanding Student of Wuhan University *2011 – 2013*
- National Scholarship *2011 – 2013*