

# 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
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## 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
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## PUBLICATIONS

I have >200 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), Volume 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), Volume 27, Issue 5, Pages 735-749, July 2016. (\* equal contribution) [PDF](#)
5. Hanno Scharf, 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), Volume 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. [arXiv](#)
7. Joel Stehouwer, **Xi Yin**, Luan Tran, Jingfeng Liu, Xiaoming Liu. “Surveillance Face Identification Dataset,” 2018, under review.
8. **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](#)
9. 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](#)

10. 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](#)
  11. **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](#)
  12. **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](#)
  13. **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](#)
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## 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)
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## 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.
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## 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
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## PROFESSIONAL SERVICES

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

- *Research Interests*: Computer Vision, Machine Learning, Image Processing, Face Recognition
  - *Programming*: Python, C++, MATLAB, Lua, etc.
  - *Tools*: Torch, TensorFlow, Caffe, OpenCV, L<sup>A</sup>T<sub>E</sub>X, etc.
  - *Systems*: Linux (Ubuntu), OSX, Windows
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## HONORS & AWARDS

- First Place in Fitch H. Beach Awards, College of Engineering at MSU 2018
- Outstanding Graduate Student Award, CSE Department at MSU 2018
- Dissertation Completion Fellowship of MSU 2018
- ICCV Doctoral Consortium Travel Award 2017
- Michigan State University Travel Award 2017
- 2nd Prize at Engineering Research Symposium at MSU 2016, 2017
- Research Fellowship of MSU 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