

# Wei Xiong

✉ [wei.xiong@rochester.edu](mailto:wei.xiong@rochester.edu)

🌐 [www.cs.rochester.edu/u/wxiong5](http://www.cs.rochester.edu/u/wxiong5)

## Biography

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I am a first year PhD student at University of Rochester, under the supervision of Prof. Jiebo Luo. My research interests include computer vision and machine learning. Currently, I am mainly focusing on scene understanding, image/video generation and image translation using deep neural networks.

## Education

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- 2017 – 2022      **Ph.D., Computer Science, University of Rochester**  
Advisor: Prof. Jiebo Luo  
Research Focus: *Computer Vision*
- 2014 – 2017      **M.Sc., Computer Science, Wuhan University**  
Advisor: Prof. Bo Du  
Research Focus: *Scene Understanding Using Deep Networks*
- 2010 – 2014      **B.Sc., Computer Science, Wuhan University**  
Advisor in HONGYI School: Prof. Ruiying Du

## Publications

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### Conference Proceedings

- 1      **W. Xiong**, W. Luo, L. Ma, W. Liu, and J. Luo, “Learning to generate time-lapse videos using multi-stage dynamic generative adversarial networks”, *Computer Vision and Pattern Recognition (CVPR)*, 2018. (**Accepted**)
- 2      F. Mao, **W. Xiong**, B. Du, and L. Zhang, “Stochastic decorrelation constraint regularized auto-encoder for visual recognition”, *International Conference on Multimedia Modeling (MMM)*, 2017, pp. 368–380.
- 3      **W. Xiong**, B. Du, L. Zhang, R. Hu, and D. Tao, “Regularizing deep convolutional neural networks with a structured decorrelation constraint”, *IEEE International Conference on Data Mining (ICDM)*, 2016, pp. 519–528.
- 4      **W. Xiong**, B. Du, L. Zhang, L. Zhang, and D. Tao, “Denoising auto-encoders toward robust unsupervised feature representation”, *International Joint Conference on Neural Networks (IJCNN)*, 2016, pp. 4721–4728.
- 5      **W. Xiong**, B. Du, L. Zhang, R. Hu, W. Bian, J. Shen, and D. Tao, “R<sup>2</sup>FP: Rich and robust feature pooling for mining visual data”, *IEEE International Conference on Data Mining (ICDM)*, 2015, pp. 469–478.

### Journal Articles

- 1      B. Du, **W. Xiong**, J. Wu, L. Zhang, L. Zhang, and D. Tao, “Stacked convolutional denoising auto-encoders for feature representation”, *IEEE Transactions on Cybernetics*, vol. 47, no. 4, pp. 1017–1027, 2017.

## Publications (continued)

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- 2 W. Xiong, L. Zhang, B. Du, and D. Tao, “Combining local and global: Rich and robust feature pooling for visual recognition”, *Pattern Recognition*, vol. 62, pp. 225–235, 2017. doi: 10.1016/j.patcog.2016.08.006.

## Experience

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### Research Assistant

2017.11 University of Rochester, NY, USA  
-present Supervisor: Prof. Jiebo Luo  
Topic: Few shot learning using generative adversarial networks.

### Research Intern

2017.06 Tencent AI Lab, Shenzhen, China  
-2017.08 Supervisor: Dr. Wenhan Luo, Dr. Lin Ma and Dr. Wei Liu  
Topic: Generate realistic time-lapse videos with a multi-stage dynamic generative adversarial network given only the first frame.

### Research Assistant

2015.06 Laboratoire d’Informatique Gaspard-Monge (LIGM), Paris, France  
-2015.09 Supervisor: Dr. Chaohui Wang  
Topic: Develop a weakly supervised method for image segmentation based on fully convolutional networks.

## Awards

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2017.06 Outstanding Graduate Student of Wuhan University  
2016.11 ICDM 2016 Student Travel Award  
2016.10 National Scholarship  
2014.06 Honored Graduate Award of HONGYI School  
2008.12 2nd prize of Chinese Mathematical Olympiad (CMO) in Senior

## Skills

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Lang. Python, C/C + +, Matlab, Lua  
Tools Pytorch, Theano