

# Eu Wern Teh

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## Summary

I am a Ph.D. student in the School of Engineering at the University of Guelph where I am advised by Prof. Graham Taylor. I received both of my M.Sc. and B.Sc degree in Computer Science from the University of Manitoba. My research is focused on Deep Learning and its applications in Computer Vision.

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## Experience

### Machine Learning Group, School of Engineering

UNIVERSITY OF GUELPH, GUELPH, CANADA

#### Graduate Research Assistant

Sep '17 – present

Researching deep learning techniques to solve various computer vision task (e.g. fully supervised and weakly supervised temporal action detection, semantic segmentation, human pose estimation)

### Computer Vision Lab

UNIVERSITY OF MANITOBA, WINNIPEG, CANADA

#### Graduate Research Assistant

Sep '15 – Sep '17

Researched on deep learning techniques to solve computer vision task. My thesis is about solving weakly supervised object localization via attention-based network. In addition, I also worked on domain adaptation and transfer Learning from image to video dataset for weakly supervised object localization and detection.

### University of Manitoba

WINNIPEG, MANITOBA, CANADA

#### Graduate Teaching Assistant and Course Grader

Sep '15 – Sep '17

Teaching and guiding students on lab assignments for COMP2160 (Programming Practices) course. Grading students' assignment for COMP2080 (Analysis of Algorithm) course.

### Johnston Group

WINNIPEG, MANITOBA, CANADA

#### Application Developer

Jul '11 – Sep '15

Developed and maintained a) Billing inquiry System b) Insurance administrative system c) Advisor sales and projection system and d) Insurance quoting system

## Education

### University of Guelph

GUELPH, ONTARIO, CANADA

*Ph.D. in Engineering*

2017 – present

Courses: Introduction to Machine Learning, Deep Learning

### University of Manitoba

WINNIPEG, MANITOBA, CANADA

*M.Sc. in Computer Science, CGPA: 4.2 / 4.5*

2015 – 2017

Thesis: *Weakly Supervised Object Localization Using Attention-based Neural Networks.*

Courses: Probabilistic Graphical Models, Computational Perception & Cognition, Parallel Computing, Graph Drawing, Research Methodologies.

### University of Manitoba

WINNIPEG, MANITOBA, CANADA

*B.Sc. in Computer Science & Engineering, CGPA: 3.71 / 4.5*

2006 – 2011

## Skills

**Research expertise:** Deep Learning, Computer Vision, Convolutional Neural Network (CNN), Recurrent Neural Network, Attention based Networks, Machine Learning

**Deep Learning/Machine Learning Framework:** Torch, PyTorch, TensorFlow, Caffe, MatconvNet, Scikit-learn, libsvm

**Technical expertise:** C++, Python, Matlab, Lua, C, R, PHP, C#, Java, JavaScript, SQL, RPGLE, CLLE

**Others:** Linux, Eclipse, tmux, Visual Studio, Microsoft SQL Server, Oracle, Latex, ASP.net, Team Foundation Server, RStudio, Git, Gitlab, Github

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## Publications

- Eu Wern, Teh.**, Zhenyu, Guo., and Yang, Wang. (2017) Object Localization in Weakly Labeled Data Using Regularized Attention Networks. In Proceedings of the IEEE Visual Communications and Image Processing (poster presentation, master thesis)
- Omit, Chanda., **Eu Wern, Teh.**, Mrigank, Rochan., Zhenyu, Guo., and Yang, Wang. (2017) Adapting Object Detectors from Images to Weakly Labeled Videos. In Proceedings of the British Machine Vision Conference (poster presentation)
- Eu Wern, Teh.**, Mrigank, Rochan., and Yang, Wang. (2016) Attention networks for weakly supervised object localization. In Proceedings of the British Machine Vision Conference (poster presentation, master thesis)
- Leung, Carson Kai-Sang., Christopher L. Carmichael., and **Eu Wern, Teh.** (2011) "Visual Analytics of Social Networks: Mining and Visualizing Co-authorship Networks." In Proceedings of the HCI International conference, pp. 335-345 (oral presentation, undergraduate research project)

## Papers Under Review

- Eu Wern, Teh.**, Mrigank, Rochan., Zhen Yu, Guo., and Yang, Wang. (2017) Weakly Supervised Object Localization Using Attention-based Neural Networks. In Image and Vision Computing journal (master thesis)

## Honors & Awards

- Graduate Excellence Entrance Scholarship (GEES), University of Guelph, 2017.
- Graduate Enhancement of Tri-Council Stipends (GETS), University of Manitoba, 2015 - 2017.
- Conference Travel Grant, Department of Computer Science and Faculty of Science, University of Manitoba, 2016.
- International Undergraduate Student Scholarship, University of Manitoba, 2007 - 2008.

## Professional Services

- External reviewer at **NIPS 2016**
- External reviewer at **CVPR 2017**

## References

- Graham Taylor (Associate Professor at University of Guelph)  
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**contact:** 519-824-4120 (ext:53644)
- Yang Wang (Assistant Professor at University of Manitoba)  
**email:** ywang@cs.umanitoba.ca  
**contact:** 204-474-9740
- Neil D.B. Bruce (Assistant Professor at University of Manitoba)  
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