

# Eu Wern Teh

euwern1987@gmail.com • +1204-296-1981 • [www.linkedin.com/in/euwern](http://www.linkedin.com/in/euwern)  
5 - 335, St Mary's Rd. • R2H 1K1 • Winnipeg, Manitoba • Canada

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## Summary

I am currently a Master's student working as a graduate research assistant in the Computer Vision Lab at the University of Manitoba, advised by [Dr. Yang Wang](#). My research focus is on deep learning and computer vision. At the moment, I am researching on weakly supervised object localization. In this problem, we know what object is present in a given picture and the goal is to find the spatial location of the object.

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## Experience

### Computer Vision Lab

UNIVERSITY OF MANITOBA, WINNIPEG, CANADA

#### Graduate Research Assistant

Sep '15 – present

Researching Deep Learning techniques to solve computer vision task (e.g. Fully supervised object detection, Weakly supervised object detection and localization, Semantic Segmentation, Human Pose Estimation).

### University of Manitoba

WINNIPEG, MANITOBA, CANADA

#### Graduate Teaching Assistant and Course Grader

Sep '15 – present

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 Manitoba

WINNIPEG, MANITOBA, CANADA

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

2015 – present

Thesis: *Weakly supervised object localization with deep attention network.*

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, 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.**, 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.**, Zhen Yu, Guo., and Yang, Wang. (2017) Object Localization in Weakly Labeled Data Using Regularized Attention Networks. In Proceedings of IEEE International Conference on Multimedia and Expo 2017 (master thesis)

## Honors & Awards

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

Yang Wang (Associate Professor at University of Manitoba)

**email:** ywang@cs.umanitoba.ca

**contact:** 204-474-9740

Ed Zeghers (Vice President of IT at Johnston Group)

**email:** ed.zeghers@johnstongroup.ca

**contact:** 204-774-6677 (ext: 253)

Chris Funk (Project Manager at Johnston Group)

**email:** chris.funk@johnstongroup.ca

**contact:** 204-774-6677 (ext: 213)