# Eu Wern Teh

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## Summary

I am a Research Assistant working at the Machine Learning Research Group in the University of Guelph where I am advised by Prof. Graham Taylor. My research is focused on Machine Learning, Deep Learning and Computer Vision. I have $3.5$ years of experience in Machine Learning and $4.5$ years of Software Development experience. I received both of my M.Sc. and B.Sc. degree in Computer Science from the University of Manitoba.

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## Experience

**Machine Learning Research Group, School of Engineering**     University of Guelph, Guelph, Canada
**Research Assistant**     *Sep '17 – present*
Researching deep learning techniques to solve various machine learning problems. (e.g. unsupervised learning, semi supervised learning, active learning, transfer learning, data augmentation, and network compression.)

**Computer Vision Lab**     University of Manitoba, Winnipeg, Canada
**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.

**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

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## Education

**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*, CGPA: 3.71 / 4.5     *2006 – 2011*

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## 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:** Slurm, Linux, Eclipse, Tmux, Vim, 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)

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## 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.

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## 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)
    **email**: bruce@cs.umanitoba.ca
    **contact**: 204-474-7313