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.

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 tasks. (e.g., content-based image search, metric learning, few-shot learning, semi-supervised learning, active learning, transfer learning, and data augmentation.)

Computer Vision Lab — University of Manitoba, Winnipeg, Canada
Graduate Research Assistant — *Sep '15 – Sep '17*
I have researched on deep learning techniques to solve object detection. My thesis is about solving weakly supervised object detection via an attention-based network. Besides, I also worked on domain adaptation and transfer learning from image to video dataset for weakly supervised object detection.

Johnston Group — Winnipeg, Manitoba, Canada
Application Developer — *Jul '11 – Sep '15*
I have developed and maintained applications for a few core systems in the company: 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, Machine Vision, Computational Statistics

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 (RNN), Attention based Networks, Machine Learning, Metric Learning, Few-Shot Learning, Zero-Shot Image Retrieval

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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

Publications

Eu Wern, Teh. and Taylor, Graham W. (2020) Learning with less data via Weakly Labeled Patch Classification in Digital Pathology. In Proceedings of the International Symposium on Biomedical Imaging

Eu Wern, Teh. and Taylor, Graham W. (2019) Metric Learning for Patch Classification in Digital Pathology. In Proceedings of the Medical Imaging and Deep Learning

Eu Wern, Teh. and Taylor, Graham W. (2019) Apparent Age Estimation with Relational Networks. In Proceedings of the Computer and Robot Vision (oral presentation)

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)

Papers Under Review

Eu Wern, Teh., DeVries, Terrance., and Taylor, Graham W. (2020) ProxyNCA++: Revisiting and Revitalizing Proxy-Based Metric Learning

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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.

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
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Neil D.B. Bruce (Assistant Professor at University of Manitoba)
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