

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

Modiface Inc.

7 ST. THOMAS STREET. #502, TORONTO, ON, CANADA

Machine Learning Research Intern

May '20 – Oct '20

Researching on semi-supervised learning techniques for semantic segmentation on natural objects and urban street scenes.

Machine Learning Research Group, SOE

UNIVERSITY OF GUELPH, GUELPH, ON, CANADA

Graduate Research Assistant

Sep '17 – present

Researching deep learning techniques to solve various computer vision tasks. (e.g. semi supervised learning, active learning, transfer learning and data augmentation.)

Computer Vision Lab

UNIVERSITY OF MANITOBA, WINNIPEG, MB, 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.

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

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

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: 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.**, Terrance, DeVries., and Graham, Taylor. (2020) "ProxyNCA++: Revisiting and Revitalizing Proxy Neighborhood Component Analysis." European Conference on Computer Vision (ECCV) (poster presentation)
- Eu Wern, Teh.**, and Graham, Taylor. (2020) "Learning with less data via Weakly Labeled Patch Classification in Digital Pathology." International Symposium on Biomedical Imaging (ISBI) (poster presentation)
- Eu Wern, Teh.**, and Graham, Taylor. (2019) "Metric Learning for Patch Classification in Digital Pathology." Medical Imaging with Deep Learning (MIDL) (poster presentation)
- Eu Wern, Teh.**, and Graham, Taylor. (2019) "Apparent Age Estimation with Relational Networks." Conference on Computer and Robot Vision (CRV) (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)

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

- Reviewer at **MICCAI 2020**
- External reviewer at **NeurIPS 2016, 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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