

# MENG TANG

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Cheriton School of Computer Science

University of Waterloo, Canada

## EDUCATION

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**PhD in Computer Science** *Jan. 2018 – Spring 2019 (expected)*

University of Waterloo, Canada

(Transferred with Advisor Yuri Boykov)

**PhD in Computer Science** *Jan. 2014 – Aug. 2017 (withdrawn)*

**MSc in Computer Science** *Sep. 2012 – Dec. 2013*

Western University, Canada

**B.E. in Automation** *Sep. 2008 – Jul. 2012*

Huazhong University of Science and Technology, Wuhan, China

## INDUSTRIAL EXPERIENCE

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**Research Intern** *Aug. 2017 – Dec. 2017*

Disney Research Zürich, Zürich, Switzerland.

Host: Christopher Schroers

**Graduate Computer Vision Intern** *June. 2016 – Sept. 2016*

A9.com (an Amazon company), Palo Alto, CA.

Mentors: Edward Hsiao & Douglas Gray

## PUBLICATION

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1. **Meng Tang**, Federico Perazzi, Abdelaziz Djelouah, Ismail Ben Ayed, Christopher Schroers, Yuri Boykov, "On Regularized Losses for Weakly-supervised CNN Segmentation", In *European Conference on Computer Vision (ECCV)*, Munich, Germany, September 2018.
2. Dmitrii Marin, **Meng Tang**, Ismail Ben Ayed, Yuri Boykov, "ADM for grid CRF loss in CNN segmentation", In *arXiv 1809.02322*, September 2018.
3. Hoel Kervadec, Jose Dolz, **Meng Tang**, Eric Granger, Yuri Boykov, Ismail Ben Ayed, "Size-constraint loss for weakly supervised CNN segmentation", In *International conference on Medical Imaging with Deep Learning (MIDL)*, Amsterdam, Netherlands, July 2018.
4. **Meng Tang**, Abdelaziz Djelouah, Federico Perazzi, Yuri Boykov, Christopher Schroers, "Normalized Loss for Weakly-supervised CNN Segmentation", In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Salt Lake City, USA, June 2018.
5. **Meng Tang**, Dmitrii Marin, Ismail Ben Ayed, Yuri Boykov, "Kernel Cuts: Kernel and Spectral Clustering Meet Regularization", In *International Journal of Computer Vision (IJCV)*, 2018.
6. Dmitrii Marin, **Meng Tang**, Ismail Ben Ayed, Yuri Boykov, "Kernel Clustering: Density Biases and Solutions", In *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2017.
7. **Meng Tang**, Dmitrii Marin, Ismail Ben Ayed, Yuri Boykov, "Normalized Cut Meets MRF", In *European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands, October 2016. (Oral, rate: 1.8%)
8. **Meng Tang**, Ismail Ben Ayed, Dmitrii Marin, Yuri Boykov, "Secrets of GrabCut and Kernel K-means", In *IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, December 2015.
9. **Meng Tang**, Ismail Ben Ayed, Yuri Boykov, "Pseudo-Bound Optimization for Binary Energies",

In *European Conference on Computer Vision (ECCV)*, Zurich, Switzerland, September 2014.  
(**Oral**, rate: 2.6%)

**10.Meng Tang**, Lena Gorelick, Olga Veksler, Yuri Boykov, "GrabCut in One Cut", In *IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

## **TALKS**

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- In Nvidia, Toronto, Canada, Aug. 2018  
*"Optimization for Image Segmentation"*.
- In Borealis AI, Toronto, Canada, July 2018  
*"On Regularized Losses for Weakly-supervised CNN Segmentation"*.
- In Huawei Noah's Ark Lab, Toronto, Canada, April 2018  
*"Kernel Clustering, MRF and Convolutional Neural Networks for Image Segmentation"*.
- In ETH Zürich, Zürich, Switzerland, Nov. 2017  
*"Kernel (Spectral) Clustering meets Markov Random Field"*.
- In ETS Montreal, Université du Québec, Montreal, Canada, Nov. 2016  
*"Energy minimization for segmentation in computer vision"*.
- In *European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands, Oct. 2016  
*"Normalized Cut Meets MRF"*.
- In A9.com, Palo Alto, CA, June 2016  
*"Energy minimization for segmentation in computer vision"*.
- In *European Conference on Computer Vision (ECCV)*, Zürich, Switzerland, Sept. 2014  
*"Pseudo-Bound optimization for binary energies"*.

## **AWARDS**

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- David R. Cheriton Graduate Scholarship, University of Waterloo, 2018-2019
- International Doctoral Student Award, University of Waterloo, 2018
- Western Graduate Research Scholarship, Western University, 2012-2017
- Outstanding Graduate, Huazhong University of Science and Technology, 2012
- National Scholarship, China, 2009

## **PROFESSIONAL SERVICES**

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- Reviewer for journals:  
TIP, IJCV, CVIU, TPAMI
- Reviewer for conferences:  
British Machine Vision Conference (BMVC) 2017  
European Conference on Computer Vision (ECCV) 2016, 2018  
IEEE International Conference on Computer Vision (ICCV) 2015, 2017  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2015 – 2018

## **TEACHING EXPERIENCE**

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- Teaching Assistant, CS 115: Introduction to Computer Science Winter 2018, University of Waterloo
- Teaching Assistant, CS 1037a: CS Fundamentals II (C++) Fall 2012-2016, CS 1027b: CS Fundamentals II (JAVA) Spring 2016-2017, Western University