

YUE DONG

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EDUCATION

McGill University/Mila, Canada *Jan. 2017 - Present*
Ph.D. in Computer Science **CGPA:10/10**
Advisor: Jackie Cheung

University of Ottawa, Canada *Jan. 2015 - Dec. 2016*
Master of Science in Mathematics **CGPA:9.5/10**
Advisors: Vladimir Pestov, Nathalie Japkowicz
Thesis: Higher Order Neural Networks and Neural Networks for Stream Learning

University of Ottawa, Canada *Jan. 2011 - Dec. 2014*
Honours Bachelor of Science, Major in Mathematics and Minor in Computer Science **CGPA:9.6/10**
Advisor: Vladimir Pestov
Honours Thesis: The k-NN Classifier under General Similarity Measure

Xi'an Jiaotong University, China *Sep. 2009 - Sep. 2010*
Clinical Medicine

RESEARCH INTERESTS

Natural Language Processing, Deep Learning, Reinforcement Learning, Computational Linguistics, Automatic Text Summarization

WORK AND RESEARCH EXPERIENCE

Research Intern, Allen Institute for AI, Seattle, USA *June 2020 - Dec. 2020*
• Research on abductive reasoning, commonsense reasoning and controlled text generation.

Part-time Research Intern, Microsoft, Redmond, USA *March 2020 - June 2020*
• Successfully developed facts-aware abstractive summarization models (accepted at EMNLP2020).
• The proposed models can improve the factual consistency by a wide margin from 70% to 90%.

Associate Researcher, Huawei Noah's Ark Lab, Montreal, Canada *Oct. 2018 - Mar. 2019*
• Designed a text simplification framework by explicitly modeling the edits (published at ACL2019).
• Investigated syntactic and semantic soft templates for summarizing scientific articles and medical journals.

PUBLICATIONS

Yue Dong, Shuohang Wang, Zhe Gan, Yu Cheng, Jackie C. K. Cheung and Jingjing Liu. "[Multi-Fact Correction in Abstractive Text Summarization](#)." EMNLP, 2020

Yao Lu, Yue Dong and Laurent Charlin. "Multi-XScience: A Large-scale Dataset for Extreme Multi-document Summarization of Scientific Articles." EMNLP, 2020

Meng Cao, Yue Dong, Jiapeng Wu and Jackie C. K. Cheung. "Factual Error Correction for Abstractive Summarization Models." EMNLP, 2020

Yue Dong*, Matt Grenander*, Jackie C. K. Cheung and Annie Louis. "[Countering the Effects of Lead Bias in News Summarization via Multi-Stage Training and Auxiliary Losses](#)." EMNLP-IJCNLP, 2019

Yue Dong, Zichao Li, Mehdi Rezagholizadeh and Jackie C. K. Cheung. "[EditNTS: An Neural Programmer-Interpreter Model for Sentence Simplification through Explicit Editing](#)." ACL, 2019

- Pengfei Liu, Yue Dong*, Jie Fu*, Xipeng Qiu and Jackie C. K. Cheung. "[Learning Multi-task Communication with Message Passing for Sequence Learning.](#)" AAAI, 2019
- Yue Dong*, Yikang Shen*, Eric Crawford, Herke van Hoof and Jackie C. K. Cheung. "[BanditSum: Extractive Summarization as a Contextual Bandit.](#)" EMNLP, 2018
- Koustuv Sinha, Yue Dong, Jackie C. K. Cheung and Derek Ruths. "[A Hierarchical Neural Attention-based Text Classifier.](#)" EMNLP, 2018
- Yue Dong and Nathalie Japkowicz. "[Threaded ensembles of autoencoders for stream learning.](#)" Computational Intelligence. Wiley. Volume 34, Issue 1, Pages 261-281, February 2018
- Yue Dong and Nathalie Japkowicz. "[Threaded ensembles of supervised and unsupervised neural networks for stream learning.](#)" Canadian Conference on Artificial Intelligence. Springer, Cham, 2016 (**best paper award**)
- Yue Dong*, Andrei Romascanu* and Jackie C. K. Cheung. "[HipoRank: Incorporating Hierarchical and Positional Information into Graph-based Unsupervised Long Document Extractive Summarization.](#)" ArXiv preprint, 2020
- Yue Dong. "[A Survey on Neural Network-Based Summarization Methods.](#)" arXiv preprint, 2018

SPECIAL AWARDS

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| Best Paper Award , 29th Canadian Conference on Artificial Intelligence, Victoria | <i>June, 2016</i> |
| Paper: Threaded Ensembles of Supervised and Unsupervised Neural Networks for Stream Learning | |
| Second Place Prize , CS Graduate Student Poster Competition, Ottawa | <i>Mar., 2016</i> |
| Poster: Deep Learning in Computer Vision and Visual Arts | |

SERVICE

- Co-organizer for ACL 2021 NewSum workshop.
- Reviewer for COLING 2020, EMNLP2020, IJCAI 2020, ACL 2020, AAAI 2020, EMNLP 2019, ACL 2019, IJCAI 2019, EMNLP 2019 summarization workshop and Computational Intelligence.
- Co-organizer for CompLing Meetings at McGill University from Jan., 2018 - Dec., 2018.

PRESENTATIONS AND TALKS

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| <i>Utilize pre-trained language representation models to develop strong baselines for summarization and dialogue tasks (oral)</i> | <i>Feb., 2020</i> |
| LURG reading group at Mila | Montreal, Canada |
| <i>Countering the Effects of Lead Bias in News Summarization (poster)</i> | <i>Nov., 2019</i> |
| EMNLP 2019 | Hong Kong, China |
| <i>Introduction to Natural Language Processing (oral)</i> | <i>May, 2019</i> |
| AI For Good Summer Lab | Montreal, Canada |
| <i>EditNTS: An Neural Programmer-Interpreter Model for Sentence Simplification through Explicit Editing (oral)</i> | <i>Aug., 2019</i> |
| ACL 2019 | Florence, Italy |
| <i>Edit-based Text Simplification (oral)</i> | <i>Mar., 2019</i> |
| LURG reading group at Mila | Montreal, Canada |
| <i>Extractive Summarization as a Contextual Bandit (poster)</i> | <i>Aug., 2018</i> |
| Deep Learning and Reinforcement Learning Summer School | Toronto, Canada |
| <i>BanditSum: Extractive Summarization as a Contextual Bandit (oral)</i> | <i>Nov., 2018</i> |
| EMNLP 2018 | Brussels, Belgium |

<i>Deep Reinforced Model for Abstractive Summarization (oral)</i> CompLing Meeting	<i>Oct., 2017</i> Montreal, Canada
<i>Rational Speech Act Theory for Text Summarization (oral)</i> CompLing Meeting	<i>July, 2017</i> Montreal, Canada
<i>AMR-to-text Generation (oral)</i> CompLing Meeting	<i>May, 2017</i> Montreal, Canada
<i>Rational Speech Act Theory for Pragmatic Reasoning (oral)</i> CompLing Meeting	<i>Mar., 2017</i> Montreal, Canada

SCHOLARSHIPS AND AWARDS

Alexander Graham Bell Canada Graduate Scholarship - Doctoral (CGS D) - Accepted	<i>2018-2019</i>
NSERC Postgraduate Scholarship - Doctoral (PGS D) - Accepted	<i>2017-2018</i>
FRQNT Doctoral Scholarship - Declined (Rank #1 in all applicants in Mathematics for 2016)	<i>2016</i>
FRQNT Master's Research Scholarship	<i>2016</i>
NSERC Canada Graduate Scholarships - CGS Master's	<i>2015</i>
University of Ottawa Excellence Scholarship	<i>2015 - 2016</i>
NSERC Undergraduate Student Research Awards (USRA)	<i>Summer 2014</i>
Dean's Merit Scholarships - Faculty of Science, University of Ottawa	<i>2014</i>
University of Ottawa Women's Summer Research Award	<i>Summer 2013</i>
University of Ottawa Merit Scholarship	<i>2013</i>
University of Ottawa Wong-Ng Scholarship	<i>2013</i>
University of Ottawa Work/Study Research Award	<i>Summer 2012</i>
University of Ottawa Yvon Grandchamp Scholarship	<i>2012</i>

TEACHING EXPERIENCE

COMP251 - Data Structures and Algorithms (McGill University) Teaching assistant	Montreal, Canada <i>Winter 2018</i>
COMP424 - Artificial Intelligence (McGill University) Teaching assistant	Montreal, Canada <i>Winter 2018</i>
COMP202 - Foundations of Programming (McGill University) Teaching assistant	Montreal, Canada <i>Fall 2017</i>
MAT1348 - Discrete Mathematics for Computing (University of Ottawa) DGD instructor and homework marker	Ottawa, Canada <i>Winter 2016, Winter 2014</i>
MAT1341 - Introduction to Linear Algebra (University of Ottawa) DGD instructor and homework marker	Ottawa, Canada <i>Winter 2016, Fall 2015</i>

SKILLS

Programming languages: extensive experience with Python (especially PyTorch), R, Java and L^AT_EX;
some experience with TensorFlow, C, Bash script and HTML

Extensive knowledge of: Natural Language Processing, Deep Learning, Reinforcement Learning, Applied Machine Learning, Probability and Statistics, Linear Algebra and Analysis