

Nicholas FitzGerald

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Education

Final-year Ph.D. student, Computer Science, University of Washington.

NSERC Postgraduate Fellowship (2013 – 2017)

Advisor: Dr. Luke Zettlemoyer

M.Sc. Computer Science and Engineering, University of Washington, 2014.

B.Sc. with Distinction, Cognitive Systems (Computational Intelligence and Design), University of British Columbia, 2011.

Work Experience

Current

Luke Zettlemoyer's Group (University of Washington)

2011 - present

Advisor: Dr. Luke Zettlemoyer

Joint models of language and perception for Grounded Language. Deep learning models for Semantic Role Labelling. Acquisition.

Past Appointments

Allen Institute for Artificial Intelligence (Seattle, WA)

Winter 2018

Deep learning models for QA-SRL. Wrote custom LSTM code for GPUs with CUDA. Contributed to AllenNLP Torch library.

Google (SAFT Team, Google Research NYC)

Summer 2014 and Summer 2015

Advisor: Dr. Dipanjan Das

Distributed Representations for Argument Identification in Semantic Role Labelling. Wrote C++ code for Tensorflow pre-cursor.

Laboratory for Computational Intelligence (University of British Columbia)

Summer 2009 - 2011

Advisor: Dr. Giuseppe Carenini

Automatic Abstractive Summarization of Web Textual Content.

Wellcome Trust Centre for Cell Biology (University of Edinburgh)

Summer 2008

Advisor: Dr. Michael Tyers

Developed prototype web-based molecular data-mining application.

Technical Skills

Proficient in: Python, Java, C++ (including GPU programming with CUDA)

Significant experience with Torch and Tensorflow deep learning libraries.

Awards and Honours

Honourable Mention for Best Paper at ACL 2018

NSERC Postgraduate Fellowship PGS-D (2013-2017)

Intel Science and Technology Center Fellowship (2011-2013)

Computing Research Association Outstanding Undergraduate Research Award 2011 (Honourable Mention)

UBC Go Global International Travel Award 2010 - *to attend Universitas 21 International Undergraduate Research Conference in Melbourne, Australia.*

Most Imaginative Research Award - *Universitas 21 International Undergraduate Research Conference in Melbourne, Australia.*

UBC Dean's List - 2009, 2010 and 2011

UBC Computer Science Teaching Assistant Award 2010

UBC Trek Excellence Award 2008-2009

Teaching Experience

Courses TAed For

At University of Washington:

CSE 517: Natural Language Processing

CSE 473: Artificial Intelligence

At University of British Columbia:

CPSC 101: Connecting with Computer Science

CPSC 121: Models of Computation

CPSC 213: Introduction to Computer Systems

COGS 200: Introduction to Cognitive Systems

COGS 303: Research Methods in Cognitive Science

Publications

Conference Proceedings

FitzGerald N., Michael J., He L. and Zettlemoyer L. (2018) Large-Scale QA-SRL Parsing, *Association of Computation Linguistics (ACL 2018)*. Melbourne, Australia.

****Honourable Mention for Best Paper**

Levy O., Lee K., FitzGerald N. and Zettlemoyer, L. (2018) Long Short-Term Memory as a Dynamically Computed Element-wise Weighted Sum, *Association of Computation Linguistics (ACL 2018)*. Melbourne, Australia.

FitzGerald N., Täckström O., Ganchev G. and Das D. (2015) Semantic Role Labeling with Neural Network Factors, *Empirical Methods in Natural Language Processing (EMNLP 2015)*. Lisbon, Portugal.

FitzGerald N., Artzi Y., and Zettlemoyer L. (2013) Learning Distributions over Logical Forms for Referring Expression Generation, *Empirical Methods in Natural Language Processing (EMNLP 2013)*. Seattle, WA, USA.

Matuszek C.*, FitzGerald N.*, Bo L., Zettlemoyer L., and Fox D. (2012) A Joint Model of Language and Perception for Grounded Attribute Learning, *International Conference on Machine Learning (ICML 2012)*. Edinburgh, Scotland.

FitzGerald N., Carenini G., Murray G. and Joty S. (2011) Exploiting Conversational Features to Detect High-Quality Blog Comments, *Canadian Conference on Artificial Intelligence*. St. Johns, Newfoundland.

Tutorials

Artzi Y., FitzGerald N., and Zettlemoyer L. (2015) Semantic Parsing with Combinatory Categorical Grammars, *Association for the Advancement of Artificial Intelligence (AAAI 2015)* (AAAI 2015). Lisbon, Portugal.

Artzi Y., FitzGerald N., and Zettlemoyer L. (2014) Semantic Parsing with Combinatory Categorical Grammars, *Empirical Methods in Natural Language Processing (EMNLP 2014)*. Doha, Qatar.

Artzi Y., FitzGerald N., and Zettlemoyer L. (2013) Semantic Parsing with Combinatory Categorical Grammars, *Annual Meeting of the Association of Computational Linguistics (ACL 2013)*. Sofia, Bulgaria.

Workshops

Matuszek C., FitzGerald N., Herbst E., and Fox D. (2012) Interactive Learning and its Role in Pervasive Robotics, *ICRA 2012 Workshop on the Future of HRI*. St. Paul, MN, USA.

Conati C., Carenini G., Harati M., Toker D., FitzGerald N., Flagg A. (2011). User-Adaptive Visualizations: Can Gaze Data Tell Us When a User Needs Them? *AAAI-11 Workshop on Scalable Integration of Analytics and Visualization*.

FitzGerald, N., Carenini, G. and Ng, R. (2010). ASSESS: Abstractive Summarization System for Evaluative Statement Summarization, *North-West Natural Language Processing Workshop 2010*. Redmond, WA.