Victor Prokhorov

Email: victorprokhorov91@gmail.com   **GitHub**   **LinkedIn**

Phone: 07818927970   **Citizenship**: British, Russian

Research interests	sentence embeddings, variational autoencoders, sparsity, inductive biases

Education

University of Cambridge   Cambridge, UK
PhD in Computation, Cognition and Language   2017 – 2021
Supervisors: N. Collier, E. Shareghi

University of Cambridge   Cambridge, UK
MPhil in Advanced Computer Science   2016 – 2017
Supervisors: N. Collier, P. Lio, T. Pilehvar *Grade: Distinction*

University of Bristol   Bristol, UK
BEng in Computer Science and Electronics   2013 – 2016
Supervisor: N. Dahnoun *Grade: First Class (Hons)*

Grants

Mitacs Globalink Research (Mitacs, has not been accepted)   2020
Student Travel Grant (Workshop: Neural Generation and Translation)   2019

Work experience

Montreal Institute for Learning Algorithms (MILA),   Montreal, Canada
Internship (Host: Siva Reddy)   Sep.- Dec. 2020
Description of your responsibilities: in the project we aimed to induce reusable symbolic representation of text.

Publications

Learning Sparse Sentence Encoding without Supervision: An Exploration of Sparsity in Variational Autoencoders
Victor Prokhorov, Yingzhen Li, Ehsan Shareghi and Nigel Collier
Proceedings of the 6th Workshop on Representation Learning for NLP, 2021

Unsupervised Representation Disentanglement of Text: An Evaluation on Synthetic Datasets
Lan Zhang, **Victor Prokhorov** and Ehsan Shareghi
Proceedings of the 6th Workshop on Representation Learning for NLP, 2021

On the Importance of the Kullback-Leibler Divergence Term in Variational Autoencoders for Text Generation
Victor Prokhorov, Ehsan Shareghi, Yingzhen Li, Mohammad Taher Pilehvar and Nigel Collier
Proceedings of the 3rd Workshop on Neural Generation and Translation, 2019

Generating Knowledge Graph Paths from Textual Definitions using Sequence-to-Sequence Model

Victor Prokhorov, Mohammad Taher Pilehvar and Nigel Collier

Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, 2019

Unseen Word Representation by Aligning Heterogeneous Lexical Semantic Space

Victor Prokhorov, Mohammad Taher Pilehvar, Dimitri Kartsaklis, Pietro Lio, Nigel Collier

Proceedings of the AAAI Conference on Artificial Intelligence, 2019

Card-660: A reliable evaluation framework for rare word representation models

Mohammad Taher Pilehvar, Dimitri Kartsaklis, **Victor Prokhorov** and Nigel Collier

Proceedings of the Conference on Empirical Methods in Natural Language Processing, 2018

Teaching experience | **Department of Theoretical and Applied Linguistics (University of Cambridge)** Michaelmas 2019

Course: Computational Linguistics (Organiser: Nigel Collier)

Topics and description of your responsibilities: Supervision of a small group of students (3-4 people). Mark homework and help with the understanding of the key concepts introduced in the course.

Talks and posters | **From Representation to Generation of Text** 2019

Google NLP Summit, Zurich, Switzerland (Poster)

On the Importance of the Kullback-Leibler Divergence Term in Variational Autoencoders for Text Generation 2020

AI+pizza, Microsoft Research Cambridge, Cambridge, UK (Poster)

Skills | **Programming**

Proficient in: Python, Tensorflow+Keras

Familiar with: Java, Haskell, C, C#

Languages

Russian (native), English (advanced)