

# Victor Prokhorov

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**Email:** victorprokhorov91@gmail.com

**Phone:** 07818927970

**GitHub**

**Citizenship:** British, Russian

**LinkedIn**

**Google Scholar**

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

**Education**

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

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

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

**Grants**

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

**Work experience**

<b>Montreal Institute for Learning Algorithms (MILA),</b>	Montreal, Canada
Internship (Host: Siva Reddy)	Sep.- Dec. 2020
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)

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**

Python, Tensorflow+Keras

Also, familiar with: Java, Haskell, C, C#

**Languages**

Russian (native), English (advanced)

Service

**Reviewer**

ICLR 2022, ACL ARR 2021