Victor Prokhorov

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Skills

○ **Programming**
Python, PyTorch (see: pps-vae), TensorFlow (see: hsvae, kl-text-vae, text2path)

○ **Research Communication**
communicated my research via publications at: AAAI, NAACL, EMNLP; communicated research for public audiences of peers: invited poster presentation at Microsoft Research Cambridge, UK, 2020 and invited poster presentation at Google NLP Summit, Zurich, Switzerland, 2019; released open source code for the reproducible research: pps-vae, hsvae, kl-text-vae, text2path

Work Experiences

Apr. 2022
Apr. 2024
Postdoctoral Researcher, University of Edinburgh, ExLab, working with Siddharth N. and Ivan Titov

○ project; topics: deep generative models, interpretability, representation learning; data type: images; outcome: code and publication.

Sep. 2020
Dec. 2020
Research Internship, Montreal Institute for Learning Algorithms (MILA), working with Siva Reddy

○ topics: deep generative models, interpretability, representation learning; data type: language (text)

Selected Publications

○ **Victor Prokhorov** and Ivan Titov and Siddharth N "Autoencoding Conditional Neural Processes for Representation Learning" in *ArXiv*, 2023

○ Mattia Opper and **Victor Prokhorov** and Siddharth N, "StrAE: Autoencoding for Pre-Trained Embeddings using Explicit Structure" in EMNLP (main conference), 2023

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

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

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

- **Victor Prokhorov**, Mohammad Taher Pilehvar, Dimitri Kartsaklis, Pietro Lio, Nigel Collier "Unseen Word Representation by Aligning Heterogeneous Lexical Semantic Space" in Proceedings of the AAAI Conference on Artificial Intelligence, 2019
- **Victor Prokhorov**, Mohammad Taher Pilehvar, Nigel Collier "Generating knowledge graph paths from textual definitions using sequence-to-sequence models" in Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL): Human Language Technologies, Volume 1

Education

Oct. 2017
Jan. 2022
Ph.D. Computation, Cognition and Language, University of Cambridge, Cambridge, UK

- **Ph.D. Thesis:** "Injecting Inductive Biases into Distributed Representations of Text," under supervision of Nigel Collier and Ehsan Shareghi

Oct. 2016
Jun. 2017
MPhil in Advanced Computer Science, Grade: Distinction, University of Cambridge, Cambridge, UK

Sep. 2013
Jul. 2016
BEng in Computer Science and Electronics, Grade: First Class, University of Bristol, Bristol, UK

Honors & Awards

- Mitacs Globalink Research (Mitacs, **Awarded**; the award required in person presence in Canada; due to COVID did not accept)
- Student Travel Grant (Workshop: Neural Generation and Translation)

Activities

- Co-organiser for Edinburgh NLP Meetings, 2022-2023
- Co-organiser for Dagstuhl ELLIS NLP Workshop, 2022
- Reviewer for ICLR, 2022 and ACL ARR, 2021