Gaurav Bhatt

Curriculum Vitae

✉ *gbhatt@cs.ubc.ca*
GauravBh1010tt

Education and Work

2021– **PhD, Computer Science**, University of British Columbia, Vancouver, Canada.
Advisor Dr Leonid Sigal
Project Representation Learning, Online Continual Learning, Concept Learning.

2019–2021 **Research Assistant**, Indian Institute of Technology Hyderabad, Hyderabad.
Advisor Dr Vineeth Balasubramanian
Project Domain translation, zero-shot learning using adversarial and latent variable models.

2018–2019 **Research Scientist**, Descript-AI.
Project Audio denoising, enhancement, and tagging using deep generative models.

2017–2018 **Research Assistant**, Institute Computer Center, Indian Institute of Technology Roorkee, Roorkee.
Advisor Professor Balasubramanian Raman
Project Deep Learning for natural language processing, multi-modal and transfer learning.

2015–2017 **MTech**, *Computer Science*, Indian Institute of Technology Roorkee, Roorkee.
CGPA - 9.2/10 (First Division with Distinction)
Thesis Text-based question answering system (Deep learning for QA)

2010–2014 **BTech**, *Computer Science*, College of Engineering Roorkee, Roorkee.
Percentage - 71.76/100 (First division)

Interests

Deep learning, machine learning, computer vision, NLP, data sciences

Skills

Programming Languages **Python, Matlab, R, BASH**.

Software Platforms **Pytorch, Keras, Tensorflow, Amazon AWS, Scikit-Learn**.

Honors

May. 2018 **Top open-source ML, DL, NLP contributer (by mybridge) - Rank 3 out of 250 open-source repositories**.

Nov. 2017 **Travel grant from State Government for paper presentation in ACPR - 40,000 Rupees**.

Dec. 2015 **Travel grant from ACM-SIGIR for paper presentation in FIRE - 15,000 Rupees**.

Aug. 2015 **MHRD graduate student assistance-ship at IIT Roorkee - 1,44,000 Rupees per year**.

March. 2015 **Qualified GATE exam in Computer Science (All India Rank - 204 out of 1,15,000)**.

Aug. 2013 **Best student technical presentation at SAE INDIA NIS student convention - 5,000 Rupees**.

Open-source Contribution

2018–present **DL-Seq2Seq**.

This repository consists of Pytorch implementation of papers on sequence-to-sequence and bayesian learning. Currently, the implementations includes sketch generation, variational autoencoders, scheduled sampling, handwriting synthesis, neural machine translation and handwriting generation.

Github: `https://github.com/GauravBh1010tt/DL-Seq2Seq`

2016–present **DeepLearn**.

This repository contains Tensorflow/Keras implementation of research papers on NLP, CV, ML, and deep learning. The topics includes ranking based question-answer retrieval, multi-modal deep models, attentive models for computing contextual sentence similarity, fake news stance detection, acousitce scene recognition, etc. Currently, DeepLearn has implementations of 15+ research papers.

Github: `https://github.com/GauravBh1010tt/DeepLearn`

Publications

Web Link `https://scholar.google.co.in/citations?user=PcmMT-4AAAAJ&hl=en`

2023 **Bhatt, G., Das, D., Sigal, L., and Balasubramanian, V.N., Robust Concept Learner: Learning Transformation and Domain-shift Invariance. Under preparation**.

2022 **Bhatt, G., and Balasubramanian, V.N., Learning Style Subspaces for Controllable Unpaired Domain Translation. Accepted In WACV'23**.

2020 **Bhatt, G., Chandok, C., and Balasubramanian, V.N., Learning from Anywhere: Rethinking Zero-Shot Learning with Limited Supervision. IJCAI'21 workshop**.

2019 **Bhatt, G., Jha, P., and Raman, B., 2019. Representation Learning Using Step-based Deep Multi-Modal Autoencoders. In Pattern Recognition, Elsevier, 2019**.

2018 **Bhatt, G., Gupta A., Arora A., and Raman B., 2018, Acoustic features fusion using attentive multi-channel deep architecture. (In CHIME'2018.)**.

2018 **Bhatt, G., Sharma, A., Sharma, S., Nagpal, A., Raman, B., and Mittal, A., 2018. Combining Neural, Statistical and External Features for Fake News Stance Identification. (In WWW'2018 Companion.)**.

2017 **Bhatt, G., Jha, P., and Raman, B., 2017, November. Common Representation Learning Using Step-based Correlation Multi-Modal CNN. In Asian Conference on Pattern Recognition (ACPR)**.

Teaching Experience

2021-2022 **CPSC-330, Applied Machine Learning (UBC)**, *Teaching Assistant*.

Instructor Dr. Varada Kolhatkar (2021), Dr. Gulia Toti (2022)

2022 **CPSC-332, Artificial Intelligence (UBC)**, *Teaching Assistant*.

Instructor Dr. Jordon Jhonson

2019 **CS-6360, Deep Learning for Vision (IIT Hyderabad)**, *Teaching Assistant*.

Instructor Dr. Vineeth N Balasubramanian

References

Dr. Leonid Sigal.

Associate Professor, Computer science department, UBC, Vancouver, Canada

Url `https://www.cs.ubc.ca/~lsigal/`

Email lsigal@cs.ubc.ca

Dr. V N Balasubramanian.

Associate Professor, Computer science department, IIT-Hyderabad.

Url `https://www.iith.ac.in/~vineethnb/`

Email vineethnb@iith.ac.in

Dr. B Raman.

Professor, Computer science department, IIT-Roorkee, India.

Url `http://faculty.iitr.ac.in/~balarfma/`

Email balarfma@iitr.ac.in