

Anmol Sharma

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RESEARCH DOMAINS

MEDICAL IMAGE ANALYSIS
MACHINE LEARNING
DEEP LEARNING

EDUCATION

Simon Fraser University

MSC IN COMPUTING SCIENCE

Fall 2017 - Present

Burnaby, BC

Cum. GPA: 4.05/4.33

- NSERC-CREATE Bioinformatics Scholarship 2018-2019
- SFU Entrance Scholarship
- SFU Graduate Fellowship

DAVIET Jalandhar

BTECH IN INFORMATION

TECHNOLOGY

Fall 2012 - Spring 2016

Jalandhar, PB, India

Final Percentage: 76.72%

LINKS

Github:// [trane293](#)

LinkedIn:// [trane293](#)

Homepage:// [trane293](#)

COURSEWORK

Graduate

Machine Learning • Natural Language Processing • Deep Learning • Computer Animation • Bioinformatics • Algorithms • Medical Image Analysis

PROJECTS

Complete list of projects and open source contributions available at

<https://trane293.github.io/>

AWARDS

Year	Name	Value
2018	FAS Topup for NSERC-CREATE Awardees	\$6,000
2018	NSERC-CREATE Bioinformatics Scholarship	\$22,000
2017	SFU Full Scholarship for 2 Years	\$33,000
2017	SFU Entrance Scholarship	\$3,000
2016	INAE Scholarship	\$500

EXPERIENCE

UBC Neuroscience at Vancouver General Hospital

RESEARCH ASSISTANT

May 2019 - Present | Vancouver, BC, Canada

- Internship under the NSERC-CREATE Fellowship, investigating a radiogenomics based project that connects imaging biomarkers to genetic findings.

Pluto Health Innovations

CONSULTING SOFTWARE ENGINEER (PART-TIME)

April 2018 - Present | Redwood City, CA, USA (Remote)

- Consulting with the stealth startup working towards disrupting the Electronic Medical Record (EMR) space by leveraging advanced natural language processing.
- Consulting for the full life-cycle of the product from design, to engineering to implementation.

Medical Image Analysis Laboratory at SFU

RESEARCH ASSISTANT

January 2018 - Present | Burnaby, BC

- Investigating methods for accurate synthesis of missing pulse sequences in patient MR scans, which is a practical problem in clinical setting, under senior supervisor Prof. Ghassan Hamarneh.

RadSupport Inc.

MACHINE LEARNING ENGINEER

April 2016 - April 2017 | Mountain View, CA (Remote)

- One of the earliest employees, developed commercial computer aided detection/diagnosis (CADx) software for screening mammography using advanced deep learning techniques.
- Researched, designed and implemented a combination of machine learning methods with hand-crafted features as well as state-of-art deep learning models driven by insightful visualization of input feature space and domain knowledge.

SELECTED PUBLICATIONS

- **Anmol Sharma**, and Ghassan Hamarneh. "Missing MRI Pulse Sequence Synthesis using Multi-Modal Generative Adversarial Network." arXiv preprint arXiv:1904.12200 (2019). (Submitted to IEEE Transactions of Medical Imaging)
- Saeid Asgari Taghanaki, Aicha Bentaieb, **Anmol Sharma**, S. Kevin Zhou, Yefeng Zheng, Bogdan Georgescu, Puneet Sharma et al. "Select, Attend, and Transfer: Light, Learnable Skip Connections." arXiv preprint arXiv:1804.05181 (2018).
- Subhasis Banerjee, Sushmita Mitra, **Anmol Sharma**, and B. Uma Shankar. "A CADe System for Gliomas in Brain MRI using Convolutional Neural Networks." arXiv preprint arXiv:1806.07589 (2018).

SKILLS

Programming

In decreasing order of proficiency : Python • Bash • MATLAB • C++ • HTML • CSS • Javascript.

Libraries & Tools

PyTorch • Keras • Tensorflow • TensorForce • Scikit-Learn • Scikit-Image • Numpy • OpenCV • SimpleITK • Pandas • H5PY • Git • PyCharm IDE • Linux Fundamentals