Curriculum Vitae +1-(587)-969-9923

Fahim Anzum

PhD Fellow, Graduate Assistant - Research fahim.anzum@ucalgarv.ca **Email:** https://github.com/anzumbivor Department of Computer Science GitHub: The University of Calgary Homepage: http://anzumbivor.github.io/

https://www.linkedin.com/in/anzumbivor/ 2500 University Dr NW Calgary, AB, Canada T2N 1N4 LinkedIn:

Research Interest

Machine Learning and Deep Learning with a focus on real-world problems (i.e., Online Social Networks, Biometric Technology, Healthcare, Autonomous Driving, etc.); Human-in-the-loop Computing; Human-Computer Interaction (HCI); Human-AI Interaction

Education

Doctor of Philosophy: Computer Science

University of Calgary

Supervisor: Dr. Marina Gavrilova

Research Lab: Biometric Technologies Laboratory (BT Lab)

Master of Science: Computer Science (CGPA: 4.00/4.00)

University of Calgary

Supervisor: Dr. Mario Costa Sousa, Dr. Usman Alim

M.Sc. Thesis: Exploring Convolutional Neural Networks and Transfer Learning for

Oil Sands Drill Core Image Analysis

Uri: https://prism.ucalgarv.ca/handle/1880/113786

Bachelor of Science: Computer Science and Engineering (CGPA: 3.79/4.00)

Military Institute of Science and Technology (MIST), Bangladesh University of Professionals (BUP)

B.Sc. Thesis: A New Algorithm to Compute Single Source Shortest Path

in a Real Edge Weighted Graph to Optimize Time Complexity

Dhaka, Bangladesh

Expected: Aug 2025

Calgary, Canada

Aug 2021 Calgary, Canada

Jan 2018

Publication (https://scholar.google.com/citations?user=gziajGcAAAJ&hl=en)

- Asha, A.Z., Anzum, F., Finn, P., Sharlin, E. and Costa Sousa, M., 2020, September. Designing External Automotive Displays: VR Prototypes and Analysis. In 12th International Conference on Automotive User Interfaces and *Interactive Vehicular Applications* (pp. 74-82).
- Anzum, F., Ahmed, F., Azim, M. S., Hossain, M., Zaman, S., Hasib, F., & Al Ahsan, S. (2018, June). Smart Self Position Aligning Chair for a Modern Conference Room. In 2018 IEEE/ACIS 17th International Conference on Computer and *Information Science (ICIS)* (pp. 263-268). IEEE.
- Zavin, A., Anzum, F., Rahman, S. F., Islam, M. N., & Hoque, M. (2018, December). Towards Developing an Intelligent Fire Exit Guidance System Using Informed Search Technique. In 2018 21st International Conference of Computer and Information Technology (ICCIT) (pp. 1-6). IEEE.
- Sharif, A., Anzum, F., Zavin, A., Suha, S. A., Ibnat, A., & Islam, M. N. (2018, July). Exploring the Opportunities and Challenges of Adopting Augmented Reality in Education in a Developing Country. In 2018 IEEE 18th International Conference on Advanced Learning Technologies (ICALT) (pp. 364-366). IEEE.
- Ahmed, F., Anzum, F., Islam, M. N., Abdullah, W. M., Al Ahsan, S., & Rana, M. (2018, June). A New Algorithm to Compute Single Source Shortest Path in a Real Edge Weighted Graph to Optimize Time Complexity. In 2018 IEEE/ACIS 17th International Conference on Computer and Information Science (ICIS) (pp. 185-191). IEEE.

Awards & Scholarships

- "Eyes High International Doctoral Recruitment Scholarship" (2021-2025) at the University of Calgary
 - o Valued at CA\$ 15,000/year

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- "International Graduate Tuition Award" (2021-2025) at the University of Calgary
 - o Valued at CA\$ 3,000/year
- "Department Research Award" (2020-21) at the University of Calgary
 - o Valued at CA\$ 11,000 (Have been awarded for Winter 2021)
- "Mitacs-Accelerate Graduate Research Internship" (2019-2021) at the University of Calgary
 - o Valued at CA\$ 50,000 for 2 years
- "International Graduate Recruitment Award" (2019) at the University of Calgary
 - o Valued at CA\$ 2,000 received on September 2019
- "Visa Differential Scholarship" (2019) at the University of Calgary
 - o Valued at CA\$ 4,126.17 for 1 year
- "MIST Commandant's List Award" (2015, 2016) in MIST for academic distinction
- "HSC Scholarship (2012)" stood 19th in Dhaka Education Board, Bangladesh
- "Junior School Scholarship (2008)" on 8th grades, Dhaka, Bangladesh

Work Experience & Training

University of Calgary

Graduate Assistant - Teaching

Conducted Courses:

- Data-201 (Thinking with Data)

- CPSC-217 (Introduction to Computer Science for Multidisciplinary Studies-I)

- CPSC-319 (Data Structures, Algorithms and Their Application)

Suncor Energy

Research Intern

United International University (UIU)

Lecturer, Dept. of Computer Science and Engineering (CSE)

Course Conducted: Computer Graphics

Primeasia University

Lecturer, Dept. of Computer Science and Engineering (CSE)

Course Conducted: Software Engineering, Data Structures

Workshop on "Outcome Based Education" (OBE)

United International University (UIU)

Short Course on Cisco Certified Network Associate (CCNA)

Military Institute of Science and Technology (MIST)

Global Voice Telecom Limited

Industrial Training on VoIP technology

Calgary, AB, Canada

Fall 2021, Spring 2020,

Winter 2020

Calgary, AB, Canada Sept 2019 – Sept 2021

Sept 2017 - Sept 2021

Dhaka, Bangladesh

August 2018 – August 2019 (Currently on Study-leave)

Dhaka, Bangladesh

June 2018 - July 2018

Dhaka, Bangladesh

August 2018

Dhaka, Bangladesh

Duration: 42 Hours

Dhaka, Bangladesh

Dec 2016 - Jan 2017

Volunteer Experience

- External Reviewer
 - o The 21st International Conference on Computational Science and Applications (ICCSA 2021)
 - o Transactions on Computational Science Springer

Online Courses and Certifications

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, And Deep Learning
 - Issuing Organization: Coursera
 - Issue Date: April 20, 2020
 - Credential ID: 6EK8CMWJWPGE
- Python for Data Science and Machine Learning Bootcamp
 - Issuing Organization: Udemy

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- Issue Date: April 17, 2020
- Credential ID: <u>UC-685f6e72-e398-462d-9cdf-666adbd78b9b</u>

Technical Proficiency (https://github.com/anzumbivor)

- **Programming Language**: Python, C, C++, Java, HTML5, CSS, PHP, JavaScript, MySQL, Assembly
- **Platform/Library**: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, TensorFlow, Keras, MATLAB, OpenGL, Android, Oracle 11g, Windows, Linux, GitHub, Cisco Packet Tracer, GNS3, MS Office, Latex

Extra-Curricular Activities & Awards

- Organizer of 21st International Conference on Computer and Information Technology (ICCIT 2018)
- Champion in International Telco Warfare (Net War) 2017 organized by East West University
- Runner-up in IUT CSE Fest (App Development) 2017 among 41 teams
- **Second Runner-up** in SUST CSE Carnival (Hackathon) 2017 among 36 teams
- **Winner** in National Symposium on "Chemical Weapons Convention for the Peaceful Use of Chemistry" (Poster Competition) 2017
- Participated in Project Showcasing in IEEE IHTPC 2017 organized by BUET