M. Nahin Khan

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EDUCATION

Carnegie Mellon University, Education City, Qatar **Class of 2020**
Bachelor of Science in Biological Sciences, GPA: 3.93
Minor in Computer Science
Mellon College of Science Dean's List High Honors: Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018

RESEARCH & WORK EXPERIENCE

Machine Learning Lab, Northwestern Polytechnic University of Xi'an, Research Intern | June – Aug 2018
- Took part in an online audio classification competition on Kaggle

Undergraduate Research with Dr. Ihab Younis, Carnegie Mellon University Qatar | Jan – April 2018
- Investigated minor intron splicing of DNA damage repair genes DDB1, Parp1, and XRCC5 upon UV damage
- Performed RT-PCR to measure levels of mRNA with or without the minor intron spliced

Woolford Lab, Mellon College of Science, Research Intern | June – Aug 2017
- Investigated the role of Drs1 in ribosome assembly pathway in yeast cells
- Created spotting assays of mutagenized strains and isolated preribosomes for protein analysis
- Constructed models for Drs1 function in ribosome assembly

Phage Genomics Research Course – Carnegie Mellon University Qatar | Aug 2016 – May 2017
- Analyzed and observed the phage structures isolated from soil using SDS-PAGE and electron microscopy
- Sequenced extracted DNA using ionTorrent machine to obtain DNA strand sequences
- Performed computational assembly and annotated the sequenced DNA to generate a genemap

Fundamentals of Programming Course Assistant, Carnegie Mellon University Qatar | Aug – Dec 2017
- Taught students basic concepts about programming

TECHNICAL SKILLS

Microbiology: Basic chemistry lab techniques, organic synthesis and analysis, spectrophotometric analysis, basic microbiology, picking and streaking of cells/viruses, cellular component isolation (DNA, RNA, protein), enzyme digestions, transformation of cells, gel electrophoresis, SDS-PAGE, ribosomal purification, centrifugation, site directed mutagenesis, amplification of plasmids, primer design, fractionation of cells, PCR and sequencing, mammalian cell culture maintenance, UV-induced damage, RT-PCR

Computer: Python, C, MATLAB, SML, HTML, CSS, JavaScript, BLAST, Excel, PowerPoint

Language: Fluent in English, Urdu-Hindi (intermediate), and Arabic (basic).
Experience with East Asian and Middle Eastern culture.

EXTRACURRICULAR

Thought Club, Vice President | **Aug 2018 – Present**
- Organized meetings where students could discuss answers to thought-provoking philosophical questions

Student Orientation, Orientation Counselor | **Aug 2018, 2017**
- Facilitated the assimilation of incoming students into the Carnegie Mellon community

Language Bridges Program, CMUQ, Teacher | **Aug – Dec 2016**
- Taught foreign workers to improve their English fluency utilizing reading, writing, and speaking exercises

Basketball Team, Member | **Aug 2016 – Present**

Andrew Knight Club (Chess Club), President | **Aug 2017 – Present**

RELEVANT COURSEWORK

Biochemistry | Genetics | Cellular Biology | Molecular Biology | Molecular and Cellular Immunology | Principles of Imperative Computation | Principles of Functional Programming | Parallel and Sequential Data Structures and Algorithms | Great Theoretical Ideas in Computer Science | Machine Learning (Coursera)