Fatir Qureshi

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Education

Rensselaer Polytechnic Institute, Troy, NY
Doctoral Student in Biomedical Engineering **August 2018- Present**
Cumulative GPA 4.00/4.00

University of Connecticut, Storrs, CT
Master of Science, Biomedical Engineering **August 2017- May 2018**
Concentration: Bioinformatics and Computational Biology
Cumulative GPA 3.92/4.00

University of Connecticut, Storrs, CT
Bachelor of Science, Biomedical Engineering **August 2013 - May 2017**
Minor: Computer Science and Engineering
Cumulative GPA 3.48/4.00

Skills

Computer: Python, MATLAB, Java, SolidWorks, R, SAS, Android Studio, and LabView
Laboratory: Tinius Olsen Stress Analysis, AnyBody Software
Languages: Hindi/Urdu

Research Experience

Bioarray Genetics, Farmington, CT **May 2018-July 2018**
Bioinformatics Intern

- Managed clinical data collection, data cleaning, analysis, and reporting systems
- Implemented study-specific procedures that complied with regulatory and internal procedures for
- biomarker validation
- Identified inconsistencies and inefficiencies in processes and recommended solutions

University of Connecticut, Storrs, CT
Student Researcher **October 2015-May 2018**
Health Informatics Laboratory, Jinbo lab

- Created programs to organize and preprocess genomics data using Python and Matlab
- Carried out association testing on cow genomics data provided by the USDA, which examined the
- relationship between phenotype traits quantifying feed efficiency
- Gained familiarity with genome analysis software and python Pandas, Tensorflow libraries
- Processed substance abuse data and performed statistical analysis on a diverse range of biological datasets

Metrum Research Group, Bloomfield, CT **October 2016- May 2017**
Student Development Team Member

- Utilized an AGILE based methodology for a software development project
- Designed a web parser algorithm which was capable of aggregating pharmaceutical product data
- Implemented R-Python handshake, and gained familiarity with Python libraries pyenchant, beutifulsoup, Pandas, and Requests

Web Industries, Holliston, MA
Engineering Intern **May 2015-August 2015**

- Tested the design of lateral flow immunoassay (LFI) tests by carrying out pressure and degradation analysis
- Created validation documents and carried out diagnostic tests on manufacturing equipment.
- Gained experience with creating FDA compliant document

Honors and Involvement

United Care and Family Services Health Clinic; Norwich, CT
Volunteer Intern

- As an intern at a relatively large health clinic, it was my responsibility to assist in the creation of documents for patient records
- Facilitated in the transition of paper to digital record keeping
- Assisted with caring for the elderly and disabled

UConn Humanity First Student Organization
Treasurer

- Founded chapter of a volunteer group devoted to assisting underdeveloped communities both locally and abroad.
- Increased campus presence and membership of HFSO at UConn
- Helped to raise funds through events for the construction of a water well project in Mali

UConn Daily Campus Staff Writer
UConn Technology Incubation Partnership Fellowship
Alpha Eta Mu Beta- Biomedical Engineering Honors Society

Selected Publications

Journal Articles:

1. Delmonico, L., Obenauer, J., **Qureshi, F**., Alves, G., Costa, M., Martin, K., & Fournier, M. (2019). A Novel Panel of 80 RNA Biomarkers with Differential Expression in Multiple Human Solid Tumors against Healthy Blood Samples. *International Journal of Molecular Sciences, 20*(19), 4894. https://doi.org/10.3390/ijms20194894

Conference Proceedings:

1. **Qureshi, F**., Adams, J., Coleman, D., & Hahn, J. (2019). Significant Associations of Urinary Essential Elements and Autism Spectrum Disorder. In Northeast Bioengineering Conference. New Brunswick, NJ.

2. Xu, T., Sun, J., **Qureshi, F**., Connor, E., Cole, J., & Bi, J. (2016). Replication and Validation of Genome-wide Associations with Feed Efficiency of Dairy Cattle. In *International Conference on Bioinformatics and Biomedicine*. Shenzhen, GD, IEEE.