Tanvir Khan

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Education

Columbia University   **Expected Graduation Date: May 2023**

Master of Science in Biostatistics (Theory and Methods**)**

University of California, Irvine (UC Irvine)   **Graduation Date: June 2020**

Bachelor in Computer Science and Engineering

Research and Teaching Experience

Cognitive Science/Neuroscience Research – Dr. Aaron Bornstein Lab at UC Irvine
Research Assistant.   June 2018 – June 2021

- Run subjects through the experiment. Attend weekly meeting and give input how to improve the project or what isworking and what should be taken out of the research project.
- Analyze research articles related to Memory, Decision Making, Neuroscience
- Used MATLAB to run the experiment. Used computational model-driven analysis of behavior and brain activity(via fMRI, but with plans for EEG and other modalities).
- Created the charts and analyzed the data after running the participants through the experiment and determining if the data supports the hypothesis.

Chemistry Research – Acetylsalicylic Acid – Keck Medicine of USC   April 2014-August 2016
Research Assistant

- Learned various laboratory techniques such as gel electrophoresis, ethically inspecting animals and using them, ifneeded.
- Analyze research articles related to Chemistry, acetylsalicylic acid, and pharmaceutical medicine.
- Contributed to weekly research reading seminars and lab meetings in explaining what is happening in thePharmaceutical sector and what one of the research focuses should be in the lab
- Created an alternative and safer to aspirin. Funded by USC Keck Medical Center.
- Presentation (Poster and paper) explaining my research that I did for the year to USC Graduate Students andPrincipal Investigators.
- Awarded Second Place at the USC Keck Science and engineering fair in the field of Chemistry

Physics Research – Magnetic Linear Accelerator – Keck Medicine of USC   April 2014-August 2016
Research Assistant

- Created magnetic linear accelerator, Gauss Rifle to study kinetic energy, momentum, velocity, compare to real gun
- Funded by USC Keck Medical Center
- Analyze research articles related to Physics, mathematical concepts, vectors, forces and newton's law, kinematics

- Contributed to weekly research reading seminars and lab meetings in explaining what is happening in the field NASA, Tesla, and what future projects should we focus on and how to improve current research projects that arehappening in the lab
- Presentation (Poster and paper) explaining my research that I did for the year to USC Graduate Students andPrincipal Investigators.
- Awarded Second Place at the USC Keck Science and engineering fair in the field of Physics

Math Tutor (Private) – Los Angeles, Irvine, Beverly Hills   June 2017 – Present
- Tutoring elementary, middle, high school, and undergraduate students in Calculus Series (Single and Multivariable), Algebra I, II, Linear and Boolean Algebra, Statistics, Discrete Mathematics.
- Help students with their math homework, help students prepare for the quizzes and exams.

UCI Math CEO – Mentor – Santa Ana   June 2018 – March 2020
- Mentored more than thirty students at middle school Carr Middle School and El Sol Middle School
- Created Presentation and explained to students what they may do with the math skills in their future careers.
- Guide students in challenging mathematic puzzles and encourage them to work together to find the answer andthen explain various ways to get the answers for those mathematical questions.

Activities and Organizations

American Red Cross – UC Irvine   September 2018 – June 2020
- Volunteered at Children Hospital by reading books and playing games with them.
- Created school gardens at elementary schools in Los Angeles Community
- Completed in various health events such as Aids Walk, Walk to End Alzheimer's, Orange County Rides for Aids

Skills

Coding: R, Python
Computer: Excel, PowerPoint, Word, Creating Charts and Graphs in R
Language: English, Bengali, Hindi
Writing: Knows how to write Community Health Assessment Paper
Hobbies: Swimming, Weightlifting, Reading Books, Watching Movies