

BARIŞ C. EKİM

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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

Bachelor of Science in Computer Science and Molecular Biology and Mathematics

Relevant Coursework: Single Variable Calculus, Classical Mechanics, Principles of Chemical Science, Nucleic Acids

Cambridge, MA

May 2020

ARMAND HAMMER UNITED WORLD COLLEGE OF THE AMERICAN WEST

International Baccalaureate Diploma

ACT: E: 36 M: 36 R: 35 S: 36, GPA: 5.00/5.00

Montezuma, NM

May 2016

Research Experience

WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH

Undergraduate Research Assistant

Developing computational approaches for discovery of RNA structures that control noncoding sequences in gene regulation on sex chromosomes in Page lab.

Cambridge, MA

September 2016 – present

ISTANBUL UNIVERSITY

Research Staff Member

Worked on detecting Z-DNA formation along the *S. pombe* genome via web-based software as part of Bioinformatics and Computational Biology Group at Istanbul University Department of Molecular Biology and Genetics. Planned and put into code the backbone of the search mechanism, translated and revised reports and presentations, and provided ready access to all experimental data for the supervisor.

Istanbul, Turkey

June 2016 – August 2016

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

Research Assistant

Worked on protein structure database search via entropy-based hierarchical clustering as a visiting member of Berger Lab at the Computer Science and Artificial Intelligence Laboratory (CSAIL). Offered a novel and functional approach to the problem at hand, successfully implemented the solution computationally, engineered and optimized the full-stack web based tool at esperite.csail.mit.edu. Submitted manuscript for publication.

Cambridge, MA

June 2015 – August 2015

ISTANBUL TECHNICAL UNIVERSITY (ITU)

Research Assistant

Worked on thermal modeling of compacted graphite iron (CGI) drilling and waste textile fiber reinforced polymer composites at the Department of Materials Engineering at Istanbul Technical University Graduate School of Science. Evaluated existing research techniques and recommended improvements to ensure productivity, compared experimental and theoretical results and suggested solutions, and operated laboratory equipment effectively. Submitted manuscript for publication.

Istanbul, Turkey

May 2015 – August 2016

TURKISH AIR FORCE ACADEMY

Research Assistant

Conducted research on the integration of hydrogen fuel cells into unmanned aerial vehicles at the Department of Aeronautics and Aerospace Engineering. Conducted a variety of independent investigations in the planning, development, and implementation of original experimental procedures within the overall scope of the research project, and collected, analyzed, and reported on experimental data. Submitted manuscript for publication.

Istanbul, Turkey

May 2013 – June 2015

Additional Experience

SOCIETY FOR INTELLECTUAL GUIDANCE AND MENTORSHIP IN ACADEMIA

Founder, Executive Director

Provided mentorship for 500+ middle and high schoolers in their pursuit of academic expertise and skill building, and guidance for parents to support gifted children.

Istanbul, Turkey

May 2014 – present

UNIVERSITY OF NEW MEXICO

Department Assistant

Maintained office schedule by picking-up and delivering items at the UNM Center for Advanced Research Computing (CARC).

Albuquerque, NM

March 2016 – April 2016

Skills and Interests

Technical: Working knowledge in C/C++, Go, PHP/JavaScript. and Python, limited knowledge in R

Language: Fluent in Turkish and English, conversant in French

Interests: Music composition and production, chess, fitness