

Enes Kemal Ergin

CONTACT INFORMATION	11929 W Airport Blvd North American University Stafford, Texas 77477	<i>GitHub:</i> eneskemalergin <i>E-mail:</i> eneskemalergin@gmail.com <i>Blog:</i> eneskemalergin.github.io
RESEARCH INTERESTS	Deep learning applications in genomics and epigenomics, cancer genomics, next-generation sequencing analysis, systems biology, machine learning applications	
EDUCATION	North American University (NAU) , Stafford, Texas USA B.S., Computer Science, 2013 - 2017	
RESEARCH EXPERIENCE	Visiting Researcher <i>Harvard Medical School</i> November, 2015 - September, 2016 <ul style="list-style-type: none">• Research: Predicting the determinant of alternative splicing of RNA transcription<ul style="list-style-type: none">• Tried to find if chromatin states have any determination on alternative splicing using state-of-art deep learning methods.• Research: Predicting transcription factor binding sites across cell types<ul style="list-style-type: none">• Developed a novel deep learning method to predict transcription factor binding sites across different cell types. Undergraduate Research Assistant <i>North American University</i> September, 2015 - present <p>Lead student of Bioinformatics Lab at NAU. Closely followed 4 students and mentored them. Created open source bioinformatics curriculum with Open Source Society in GitHub.</p> <i>Yeditepe University</i> August, 2014 - May, 2015 <p>Worked remotely as an genomic data scientist and investigated data from NCBI PubMed database. Utilized virtual docking software to determine the best possible inhibitor for specific molecule.</p> <i>Texas Institute of Education and Research (TIBER)</i> September, 2014 - April, 2015 <p>Worked as an experimental biologist on sinusitis bacteria. Designed experiments by preparing agar solutions, and bacteria culture. Only worked on wet-lab experiments.</p>	
TEACHING EXPERIENCE	North American University , Stafford, TX USA <i>Teaching Assistant</i> September 2015 - Present <p>Co-taught 3 undergraduate level courses for computer science department. Prepared the lab sessions and extra sessions on Git/GitHub, Rapid Python Programming, and Ipython/Jupyter. Shared responsibility for lectures, exams, homework assignments, and grades.</p> <ul style="list-style-type: none">• COMP 3317 Algorithms, Fall 2015, 2016.• COMP 3320 Programming Languages, Fall 2016.• COMP 3322 Software Engineering, Fall 2016. <i>Instructor</i> February - April 2015 <p>Taught Basic Python programming to 35 people including students, faculty, and staff of NAU, which was a first ever course taught purely by a student in NAU history. (Link)</p>	
PUBLICATIONS	Kocabas, F., Ergin, E.K. 2016. Identification of small molecule binding pocket for inhibition of Crimean-Congo hemorrhagic fever virus OTU protease. Turkish Journal of Biology, 40:239-249.	

PROJECTS	<p>Open Source Bioinformatics Curriculum June 2016 4 year worth, open source source bioinformatics curriculum developed by my lab and contributed by open source society and other contributors around the world. (Link)</p> <p>Scholar Development Center February 2016 Created a non-profit community based organization under the Raindrop Foundation to help Turkish undergraduate students around Texas to achieve their dreams in academia or industry.</p> <p>Essential Algorithms September 2014 Put together a repository which contains algorithms from A Practical Approach to Computer Algorithms by Rod Stephens, Number Theory, and other useful algorithms written in Python. (Link)</p>																
HONORS AND AWARDS	<p>North American University: Exceptional Merit Scholarship, 2012-2017</p> <p>North American University: Graduated Magna Cum Laude, Honors in Computer Science, 2017</p> <p>North American University: President's Honor Roll , 2015-2017</p> <p>North American University: Outstanding Student of the Year, 2015</p>																
EXTRACURRICULAR ACTIVITIES	<table border="0"> <tr> <td>• NAU Kazakh Student Association, <i>Club Advisor</i></td><td>September 2016 - Present</td></tr> <tr> <td>• ISCB (International society of computational biology), <i>Member</i></td><td>August, 2016 - Present</td></tr> <tr> <td>• NAU Future Leaders Club, <i>Founder and Director</i></td><td>April, 2015 - Present</td></tr> <tr> <td>• Student Government, <i>VP of Unity and Social Justice</i></td><td>September 2014 - Present</td></tr> <tr> <td>• ACM (Association for Computing Machinery), <i>Member</i></td><td>February 2013 - Present</td></tr> <tr> <td>• NAU ACM, <i>Member</i></td><td>September 2013 - Present</td></tr> <tr> <td>• NAU ACM, <i>Vice President</i></td><td>September 2015 - May 2016</td></tr> <tr> <td>• NAU ACM, <i>Secretary</i></td><td>February 2013 - September 2014</td></tr> </table>	• NAU Kazakh Student Association, <i>Club Advisor</i>	September 2016 - Present	• ISCB (International society of computational biology), <i>Member</i>	August, 2016 - Present	• NAU Future Leaders Club, <i>Founder and Director</i>	April, 2015 - Present	• Student Government, <i>VP of Unity and Social Justice</i>	September 2014 - Present	• ACM (Association for Computing Machinery), <i>Member</i>	February 2013 - Present	• NAU ACM, <i>Member</i>	September 2013 - Present	• NAU ACM, <i>Vice President</i>	September 2015 - May 2016	• NAU ACM, <i>Secretary</i>	February 2013 - September 2014
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TECHNICAL SKILLS	<ul style="list-style-type: none"> • Languages: Python(Pandas, Numpy, H5py, Tensorflow, Biopython, Scikit-learn), R, Java, L^AT_EX, C/C++, Shell/Bash Scripting, Javascript, HTML, CSS • Database Systems: SQL, MySQL, MongoDB • Operating Systems: Unix/Linux, MacOS, Windows. 																
REFERENCES	<ul style="list-style-type: none"> • Assistant Prof. Dr. Stirling L. Churchman, Genetics Department, Harvard Medical School, Boston, MA, USA, churchman@genetics.med.harvard.edu • Associate Prof. Dr. Kemal Aydin, Computer Science Department, North American University, Stafford, TX, USA, kemal@na.edu • Prof. Dr. Zubeyir Altundas, North American University, Stafford, TX, USA cza@na.edu 																