

## Enes Kemal Ergin

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CONTACT INFORMATION	11929 W Airport Blvd North American University Stafford, Texas 77477	<i>Phone:</i> (832) 970-4591 <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	<b>North American University (NAU)</b> , Stafford, Texas USA B.S., Computer Science, May, 2017	
HONORS AND AWARDS	North American University: Exceptional Merit Scholarship, 2012-2017 North American University: Graduated Magna Cum Laude, Honors in Computer Science, 2017 North American University: Outstanding Student of the Year, 2015 North American University: President's Honor Roll , 2015-2017	
RESEARCH EXPERIENCE	<b>Visiting Researcher</b> <i>Harvard Medical School</i> <b>November, 2015 - September, 2016</b> <ul style="list-style-type: none"><li>• Research: Predicting the determinant of alternative splicing of RNA transcription<ul style="list-style-type: none"><li>• Worked with Lua/Torch, Python Pandas, Numpy, Matplotlib</li><li>• Developed a deep learning model, convolutional neural network model using Torch7</li></ul></li><li>• Research: Predicting transcription factor binding sites across cell types<ul style="list-style-type: none"><li>• Attended a ENCODE-DREAM competition: (<a href="#">Link</a>)</li><li>• Worked with Linux terminal tools, Python (Tensorflow, Pandas, Numpy, Matplotlib)</li><li>• Implemented a deep learning model, multi-task convolutional neural network model using Tensorflow</li></ul></li></ul> <b>Undergraduate Research Assistant</b> <i>North American University</i> <b>September, 2015 - present</b> <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> <b>August, 2014 - May, 2015</b> <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> <b>September, 2014 - April, 2015</b> <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	<b>North American University</b> , Stafford, TX USA <i>Teaching Assistant</i> <b>September 2015 - Present</b> <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"><li>• COMP 3317 Algorithms, Fall 2015, 2016.</li><li>• COMP 3320 Programming Languages, Fall 2016.</li><li>• COMP 3322 Software Engineering, Fall 2016.</li></ul>	

	<i>Instructor</i>	<b>February - April 2015</b>
	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)	
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	<b>Open Source Bioinformatics Curriculum</b>	<b>June 2016</b>
	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)	
	<b>Scholar Development Center</b>	<b>February 2016</b>
	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.	
	<b>Essential Algorithms</b>	<b>September 2014</b>
	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)	
EXTRACURRICULAR ACTIVITIES	<ul style="list-style-type: none"> <li>• NAU Kazakh Student Association, <i>Club Advisor</i></li> <li>• ISCB (International society of computational biology), <i>Member</i></li> <li>• NAU Future Leaders Club, <i>Founder and Director</i></li> <li>• Student Government, <i>VP of Unity and Social Justice</i></li> <li>• ACM (Association for Computing Machinery), <i>Member</i></li> <li>• NAU ACM, <i>Member</i></li> <li>• NAU ACM, <i>Vice President</i></li> <li>• NAU ACM, <i>Secretary</i></li> </ul>	<b>September 2016 - Present</b> <b>August, 2016- Present</b> <b>April, 2015 - Present</b> <b>September 2014 - Present</b> <b>February 2013 - Present</b> <b>September 2013 - Present</b> <b>September 2015 - May 2016</b> <b>February 2013 - September 2014</b>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• <b>Languages:</b> Python(Pandas, Numpy, H5py, Tensorflow, Biopython, Scikit-learn), R, Java, L<sup>A</sup>T<sub>E</sub>X, C/C++, Javascript, HTML, CSS</li> <li>• <b>Database Systems:</b> SQL, MySQL, MongoDB</li> <li>• <b>Operating Systems:</b> Unix/Linux, MacOS, Windows.</li> </ul>	
REFERENCES	**References upon to a request	