Enes Kemal Ergin

Tel: 832-970-4591 | E-mail: eneskemalergin@gmail.com

EDUCATION

B.Sc. in Computer Science (Software Engineering)   *May 2013 - May 2017*
North American University - Houston, TX
GPA: 3.72   **Honors:** Exceptional Merit Scholarship Recipient, "2012 -2017"

RELEVANT EXPERIENCE

Visiting Researcher
Harvard Medical School, Churchman Lab – Boston, MA   *November 2015 – Present*
- Research: Predicting the determinant of alternative splicing of RNA transcription
  - Worked with Lua/Torch, Python Pandas, Numpy, Matplotlib
  - Implemented a Convolutional Neural Network
- Research: Predicting transcription factor binding sites over cell types
  - Attended a ENCODE-DREAM competition: Link
  - Worked with Linux terminal tools, Python (Tensorflow, Pandas, Numpy, Matplotlib)
  - Implemented a multi-task learning CNN

Undergraduate Research Assistant
North American University Bioinformatics Lab – Houston, TX   *September 2015 – Present*
- Leading Bioinformatics Lab members
- Tutoring newcomers with prepared special tasks
- Learning together on various topics through weekly presentations
- Developed an open source Bioinformatics Curriculum for Undergraduate students: Link

Teaching Assistant
North American University – Houston, TX   *September 2015 – Present*
- Algorithms Class (COMP 3317)
  - Gave lab sessions
  - Prepared extra sessions for; Git/GitHub workshop, Rapid Python Programming
  - Prepared and evaluated exams

Undergraduate Research Assistant
Yeditepe University – Istanbul, Turkiye   *August 2014 – May 2015*
- Worked remotely as a genomic data scientist
- Investigated data from NCBI PubMed database
- Utilized virtual docking software to determine the best possible enzymes and molecules.

Volunteer Python Instructor
North American University – Houston, TX   *February – April 2015*
- Taught python programming basics to 35 people including students, faculty, and staff of NAU.
- First ever workshop/class given by a student in NAU history.
- Link

Undergraduate Research Assistant
TIBER (Texas Institute of Education and Research) – Houston, TX   *September 2014 – April 2015*
- Worked as an experimental biologist on sinusitis bacteria.
- Designed experiments by preparing agar solutions, bacteria culture.
- Kept the records of the experiments.

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PROJECTS

Open Source Bioinformatics Curriculum   *June 2016 - Present*
- Developed by my lab and contributed by open source community
- Link

Scholar Development Center   *February 2015 - Present*
- Created an organization which is a non-profit community based under Raindrop Foundation
- Helped undergraduate students around the Texas achieve their dreams in academia or industry

Essential Algorithms in Python   *September 2014 – Present*
- Implemented the algorithms in the book using Python: A Practical Approach to Computer Algorithms by Rod Stephens.
- Extended repository by adding more algorithms written in Python
- Number Theory Algorithms are also available
- Link

PUBLICATIONS

Identification of small molecule binding pocket for inhibition of Crimean-Congo hemorrhagic fever virus OTU protease   *January 2016*
- TUBITAK - Turkish Journal of Biology, volume 40, pages 239-249
- Link

LEADERSHIP

- ISCB (International society of computational biology), *Member*   *August 2016 – Present*
- Future Leaders Club, *Director*   *April 2015 – Present*
- Student Government, *VP of Unity and Social Justice*   *September 2014 – Present*
- ACM (Association of Computing Machinery), *Member*   *February 2013 – Present*
- NAU-ACM (Association of Computing Machinery), *Vice President*   *September 2015 – May 2016*
- Student Government, *VP of Finance*   *November 2014 – April 2015*
- NAU-ACM (Association of Computing Machinery), *Secretary*   *February 2013 – September 2014*

HONORS AND AWARDS

- President's Honor Roll Certificate   *April 2016*
- President's Honor Roll Certificate   *April 2015*
- North American University "The Most Outstanding Student" Award   *April 2015*

CERTIFICATES

- Bioconductor for Genomic Data Science   -Coursera   *May 2016*
- Algorithms for DNA sequencing   - Coursera   *July 2016*
- Bioinformatics Methods II - Coursera   *December 2015*
- Bioinformatics Methods I - Coursera   *December 2015*
- Python for Genomic Data Science - Coursera   *October 2015*
- Introduction to Genomic Technologies - Coursera   *October 2015*
- R Programming - Coursera   *February 2015*
- Introduction to R - DataCamp   *January 2015*
- The Data Scientist's Toolbox - Coursera   *December 2014*
- Programming for Everybody (Python) - Coursera   *June 2014*

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TECHNICAL SKILS

- **Programming Languages:** Python (Pandas, Numpy, H5py, Matplotlib, Tensorflow, Biopython), R, Java, C/C++, JavaScript, HTML, CSS
- **Database Systems:** SQL, MySQL, MongoDB
- **Operating Systems:** Mac OS, Linux-Ubuntu, Windows

LINKS

- LinkedIn: https://www.linkedin.com/in/eneskemalergin
- HackerRank: https://www.hackerrank.com/eneskemalergin
- Github: https://github.com/eneskemalergin
- Blog: http://eneskemalergin.github.io

REFERENCES

- **Dr. Stirling L. Churchman, PhD**
  Assistant Professor of Genetics, Harvard Medical School
  Email : churchman@genetics.med.harvard.edu

- **Dr. Kemal Aydin, Ph.D**
  Assistant Professor of CS at NAU
  Email : kemal@na.edu

- **Dr. Ozgur Karakuzu, Ph.D**
  Senior Research Scientist at TIBER
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- **Dr. Fatih Kocabas, Ph.D**
  Assistant Professor of Genetics and Bioengineering at Yeditepe University
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