

Kaan Ihsan Eskut

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Summary

Current PhD. student and graduate teaching and research assistant enrolled in University of Kentucky. Recognized for possessing a strong passion for Research in Bioinformatics and Computational Biology.

Good at working in collaboration with cross-functional teams in the development and execution of scientific projects, including experimental designs, applications, and workflows.

Experience

Graduate Research and Teaching Assistant | 01/2021 - Present | University of Kentucky | Lexington, Kentucky

- Dr. Jeramiah J. Smith's lab at Department of Biology.
- TA- 2021 - Fall "Introduction to Evolution" (BIO 303) - 005 and - 007 sections.
- Working on several projects including "Genome evolution of lamprey species and phylogeny of Programmed Genome Rearrangement" and "Reconstructing genome assemblies and understanding methylation status in lamprey genome".
- Developing new methods to use in laboratory's experimental designs using computing resources and single cell and spatial transcriptomics technologies.

Intern Bioinformatician and Computational Biologist | 01/2020 - 03/2020 | University of Kentucky | Lexington, Kentucky

- Working on my Bachelor's final thesis, "Development of a computational pipeline to assess patterns of evolutionary conservation and divergence across the lamprey genome" in Dr. Smith's lab at Department of Biology.

Business Development Associate | 09/2019 - 12/2020 | PeerBie Inc. | San Francisco, California

- Working with other associates to develop new ideas towards to create customer environment for a business management application.
- peerbie.com

Intern Data Scientist | 09/2019 - 03/2020 | CFA Society | Istanbul, Turkey

- Summarizing data from certain professional investors to help developing budgets for new investments on startup companies.

Intern Molecular Biologist | 01/2018 - 03/2018 | Istanbul University | Istanbul, Turkey

- Assisting protein isolations and western blotting experiments in Proteomics Laboratory at Molecular Biology and Genetics Department.

IT Staff | 09/2017 - 02/2019 | Istanbul University | Istanbul, Turkey

- Maintaining network systems between official workplaces within the university and helping to educate new staff for the IT department.

Intern Molecular Biologist and Bioinformatician | 01/2017 - 10/2019 | Cukurova University Balcali Hospital | Adana, Turkey

- Working on profiling tumor samples to develop personalized treatments for patients. Using molecular docking methods to find novel combinations of therapeutics. Interpretation variations from Whole Exome Sequencing and Whole Genome Sequencing for patients.

Education

Bioinformatics and Computational Biology | University of Kentucky | Lexington, Kentucky

- GPA:4/4.

- Working on several projects including "Genome evolution of lamprey species and phylogeny of Programmed Genome Rearrangement" and "Reconstructing genome assemblies and understanding methylation status in lamprey genome".
- Currently completing courses in biology of development and regeneration, bioinformatics, and computational biology.
- Second year PhD. student.

Molecular Biology and Genetics | Istanbul University | 07/2020 | Istanbul, Turkey

- GPA: 3.36/4.
- Bachelor of Science Degree with honors.
- Organization and management committees of Stem Cell, Genetics, Science Ethics and Bioinformatics and Statistics Students' Clubs.

Biology and Biotechnology | Maria Curie-Sklodowska University Lublin | 06/2019 | Lublin, Lublin Voivodeship

- GPA: 3.93/4.
- Erasmus+ programme.
- Semester transcript of Bachelor of Science.

Projects and Theses

- Thesis: Development of a computational pipeline to assess patterns of evolutionary conservation and divergence across the lamprey genome, Bachelor of Science degree final thesis project. Co-operation between University of Kentucky and Istanbul University.
 - Supervisor and Scientific Director: Dr. Jeramiah J. Smith.
 - Thesis Advisor: Dr. Andres Aravena.
 - 10.13140/RG.2.2.18462.15685
- Timoshevskaya N, Eşkut Kİ, Timoshevskiy VA, Robb SMC, Holt C, Hess JE, Parker HJ, Baker CF, Miller AK, Saraceno C, Yandell M, Krumlauf R, Narum SR, Lampman R, Gemmell NJ, Mountcastle J, Haase B, Balacco JR, Formenti G, Pelan S, Sims Y, Howe K, Fedrigo O, Jarvis ED, Smith JJ (2022) An improved sea lamprey (*Petromyzon marinus*) germline genome assembly illuminates the evolution of germline-specific chromosomes. (In review).

Presentations

- 2022 Aquatic Models of Human Disease Conference (AQMHD) poster presentation. "Cyclostome Genomes: Changes in Form and Function Over Eons and Across Development" Kaan I Eskut, Vladimir A Timoshevskiy, Nataliya Y Timoshevskaya, Cody Saraceno, Kasturi Rajandran, Jeramiah J Smith

Awards

- Childhood Cancer Association - Adana, Turkey - Travel Award 2020
- University of Kentucky Ribble Graduate Travel Award 2022
- Scherr Special Opportunity Award 2022
- Marine Biological Laboratory - SCARE Course - Scholarship Award Supported by National Institutes of Health (NIH) 2022

Trainings and courses

- Frontiers in Stem Cells & Regeneration - Marine Biological Laboratory 2022 - Oct 2nd to Oct 9th 2022 - Woods Hole, MA.

Skills and Interests

- Bioinformatics
- Computational Biology
- Molecular Genetics
- Cancer Biology and Genetics
- Comparative Biology
- Sequencing Technologies

- Data Analysis
- Big Data

Volunteer Experience

- 37th annual Kentucky American Water District Science Fair - Judge

Certifications

- Occupational Health and Safety Certificate, Istanbul University, 2018.

Languages

- Turkish(Native)
- English(Full Professional)
- German(Basic)
- Polish(Basic)
- Spanish(Basic)