Dicle Yalcin,
Ph.D. Candidate

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Education

Ph.D.	Electrical Engineering, University of Nebraska – Lincoln **Specialization**: Bioinformatics	2014-exp: Dec. 2020
B.S.	Genetics and Bioengineering, Istanbul Bilgi University **Minor**: Computer Science	2010-2014

Academic Experience

Teaching Assistant	Department of Electrical and Computer Engineering, University of Nebraska – Lincoln	2017-2020
Research Assistant	Otulab, Department of Electrical and Computer Engineering, University of Nebraska – Lincoln	2014-2017
Server Administrator	Otulab, Department of Electrical and Computer Engineering, University of Nebraska – Lincoln	2016-pres.

Publications

Yalcin D, and Otu HH. "**An unbiased predictive model to detect DNA methylation propensity of CpG islands in the human genome.**" Current Bioinformatics. ***(In press)*** 2020.

Yalcin D, and Otu HH. "**Understanding the CpG island distribution in model organisms using dbCGI.**" Genome Research**.** ***(In preparation)*** 2020.

Yalcin D, and Otu HH. "**Comparative analysis of human and mouse CpG islands using dbCGI.**" In 2017 IEEE International Conference on Electro Information Technology (EIT), pp. 211-216. IEEE, 2017.

Yalcin D, Hakguder ZM, and Otu HH. "**Bioinformatics approaches to single-cell analysis in developmental biology.**" Molecular Human Reproduction. (2015); 22(3):182-192.

Yalcin D, and Otu HH. "**CpG Island (CGI) Annotation Database and Analysis of CGIs in Human Genome.**" Proceedings of the Festival of Genomics; 2016 June 27-29; Boston, MA.

Awards and Fellowships

Holling Fellowship 2017-2020
$12,200

Graduate Research Fair, Poster Competition 2018
First place award
Department of Electrical and Computer Engineering,
University of Nebraska – Lincoln.

Outstanding Paper 2017
Second place award
The International Conference on Electro-Information Technology (IEEE).

Technical Skills

Sequencing technologies: NGS, RNA-seq, Whole-genome, Microarray
Programming Languages: Python, R/Bioconductor, MATLAB, Racket, C++, Perl, Java
Markup Languages: HTML, XML, LaTeX, Emacs
Operating Systems: Linux (Ubuntu), MacOS, Windows
Web Development: Django, PHP
Databases: MySQL

Teaching Experience

ECEN 103: Introduction to Electrical and Computer Engineering *Spring 2020*

ECEN 306: Digital and Analog Electronic Circuits Lab *Spring 2020*

ECEN 450: Bioinformatics *Fall 2019*

ECEN 231: Electronics and Circuits Lab *Spring, Summer 2018-2019*

ECEN 211: Elements of Electrical Engineering, I *Summer 2018*

ECEN 215: Electronics and Circuits, I *2017-2018*

ECEN 216: Electronics and Circuits, II *Spring 2016, 2019*

Internships

Department of Cardiothoracic Surgery, Faculty of Medicine, Istanbul University 2008