

# Çilga İşcan

MOLECULAR BIOLOGIST

Urla, TURKEY

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## Summary

I am a senior year **Molecular Biology and Genetics** student who tries to become a better version of herself. I love **teamwork, interact with people and be a part of exciting scientific experiments**. I am **open to learn**, especially self-learning, and **believe that everyone can do anything**. If **chances are given**. I am **ready to take actions** and become part of a team and push my limits.

## Education

### Izmir Institute of Technology

B.S. IN MOLECULAR BIOLOGY AND GENETICS

Expected graduation date: July 2021

*Izmir, Turkey*

*Oct. 2013 - Present*

### Anadolu University

B.A. IN INTERNATIONAL RELATIONS

During this major, courses were mainly focused on Political history of Turkey and dynamics with European countries and US in important historical points such as Cold War, World Wars. Also, Caucasian and Balkan regional politics also pointed as minor.

*Eskişehir, Turkey*

*Oct. 2013 - Sep. 2020*

## Skills

**Programming** R, Bash, MATLAB, JavaScript, Python, HTML, CSS

**Laboratory Expertise** RNA-seq, ChIP-seq, Agroinfiltration, DNA / RNA / Protein Isolation, LC-MS/Tandem-MS, HPLC

**Laboratory Programs** KNIME, Bioconductor, Galaxy Server, Cytoscape

**Language Skills** **Turkish** - Native | **English** - Fluent | **German** - Intermediate

**General Skills** Office Programs, JIRA, Git, Figma

## Experiences

### Urla Digital Agriculture

PART-TIME MOLECULAR BIOLOGIST

- Managed a project about **yielding a human-specific enzyme**, insulin, on tobacco and lettuce plants with using **TMV-based agroinfiltration methodologies**.
- Co-managing experiments about plant physiology and closed-controlled environment agriculture.

*Izmir, Turkey*

*Jul. 2019 - Feb. 2020*

### University of British Columbia & Vancouver Prostate Center

VISITING INTERNATIONAL RESEARCH STUDENT

- Manipulation of human **transcriptome assembly data** and analysis using Bioconductor tools and Galaxy server.
- Built and implemented** a RNA-seq and ChIP-seq workflow using **R and Bash script**.
- Please check: <https://github.com/Cilgaiscan/RNAseq>

*Vancouver, Canada*

*Jun. 2018 - Sep. 2018*

### Koç University

INTERN - VOLUNTEER

- Analyzed expression levels of target gene** KDM3B and its transcripts on different stages of cancer patients, re-current patients and healthy individuals provided by GDC and TCGA. (Total individuals 500)
- Created an R script** to automatize calculation and visualisation process on large-scale patient input.
- Please check: <https://github.com/Cilgaiscan/KDM3B>

*Istanbul, Turkey*

*Jan. 2018 - Jun. 2018*

### Abdullah Gül University

INTERN - VOLUNTEER

- Implementation of Python scripts** to manipulate **big data** on Dream Challenge by DARPA, Sage Networks, IBM and more.
- Please check: <https://www.synapse.org/#!Synapse:syn5647810/wiki/399103>

*Kayseri, Turkey*

*Jan. 2017 - Feb. 2017*

### jLAB - Allmer Lab.

UNDERGRADUATE RESEARCH STUDENT

- Analysis of **Mass Spectrometry** results with tools such as ProteoWizard, OMSSA, X!Tandem and Myrimatch.
- Also used **genetic algorithm** and **seqlib** for translation of nucleotide into triple codes.
- Attended a course to learn **KNIME** given by KNIME. And perform data processing and analysis with KNIME.

*Izmir, Turkey*

*Oct. 2014 - Feb. 2017*

Please visit my **LinkedIn** profile for further research information.

# Certificates

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## Drug Development Product Management

UC SAN DIEGO

*Coursera*

Nov. 2020

## Drug Commercialization

UC SAN DIEGO

*Coursera*

Nov. 2020

## Drug Development

UC SAN DIEGO

*Coursera*

Nov. 2020

## Drug Discovery

UC SAN DIEGO

*Coursera*

Nov. 2020

## Genomic Data Science with Galaxy

JOHNS HOPKINS UNIVERSITY

*Coursera*

Aug. 2019

## Bioinformatic Methods II

UNIVERSITY OF TORONTO

*Cousera*

Feb. 2019

## Exploratory Data Analysis

JOHNS HOPKINS UNIVERSITY

*Cousera*

Oct. 2018

## Bioinformatic Methods I

UNIVERSITY OF TORONTO

*Cousera*

Oct. 2018

## R Programming

JOHNS HOPKINS UNIVERSITY

*Cousera*

Jul. 2018

## Version Control with Git

ATLASSIAN

*Cousera*

Aug. 2020

## Agile with Atlassian Jira

ATLASSIAN

*Cousera*

Aug. 2020

## Web Design for Everybody

UNIVERSITY OF MICHIGAN

*Cousera*

Sep. 2020

Please check **my personal website** to view all extracurricular.