# ÖNDER EMRE ARIKAN

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**OBJECTIVE**

To develop the computational skills and to gain working insight in order to become a competent bioinformatician, to lay solid foundation for a possible PhD role in a computational life science field within 3-5 years time.

**SKILLS**

## IT skills

**Markup & Programming languages**

HTML, CSS, Javascript, MATLAB, Python

**Build tools, Development environments, Frameworks & Libraries**

Jekyll, Git, GitHub, Grunt, Atom, MS Visual Studio, Knockoutjs, Bootstrap, jQuery

**Desktop applications, Typesetting & Publishing tools**

Microsoft Office, LibreOffice, Google Drive, LaTeX, Gimp, Camtasia Studio

**Operating Systems, Virtualization environments**

Windows, Linux, MS Server, Oracle VirtualBox, VMware, HyperV

**Relational database management systems**

MS SQL Server, Oracle, MySQL

## Human languages

- Turkish, native
- English, advanced reading, writing and speaking
- Swedish, basic reading, writing and speaking [ *jag skojar inte =)* ]

**EDUCATION**

## Schools

MSc, Boğaziçi University, 2009
Biomedical Engineering Institute
*Graduation work:* Effects of epimuscular myofascial force transmission on sensory level; experimental assessment by afferent signals received from lower leg muscles

BSc, Istanbul Technical University, 2006
Molecular Biology and Genetics
*Graduation work:* Analyzing adsorption of bovine serum albumin on gold surface with quartz crystal microbalance

Exchange student, Umea University, Sweden, 2004
Department of Plant Physiology, Department of Molecular Biology

## Continuing education

Front-End Developer Nanodegree, Udacity, 2017
An online certification program in which several skills relevant to front-end development such as HTML, CSS and Javascript are acquired and put to use with a couple of mini-projects.

Learning How to Learn: powerful mental tools to help you master though subjects, Coursera, 2018
A MOOC from San Diego University that introduces neurological foundation of learning and some practical methods to learn new things more effectively and retain more of what's learned

Introduction to Python for Data Science, edX, 2018
Lists as a data structure, Numpy and Pandas packages of the Python Library and some basic sample use cases

**PROFESSIONAL HISTORY**

## Past employment

Application Specialist, ISU Healthcare, 01.02.2016 - 22.05.2017
As the regional partner of HIM GmbH, ISU focused on distribution of patient document management systems (PDMS) to public, private and university hospitals. I led a team of three people responsible for: Product demonstrations and site audits during pre-sales phase, POC installations, customizations, HL7 interoperability implementations at the customer site, handling of internal tickets.

Application Specialist, Evolucare, 02.09.2013 - 07.01.2016
France based medical software company with a focus on critical care (i.e. operating rooms and intensive care units) information systems as well as PACS (picture archive and communication systems, mainly used in radiology departments of hospitals). I led the Biomedical / IT team of 3 people responsible for: Auditing installation sites, providing technical pre-sales support, installation and maintenance of the clients and servers, handling internal and external tickets. Within two years, my team delivered fully functional production environments for two major private hospitals in Istanbul and Kocaeli.

Researcher, Boğaziçi University, 01.10.2009 - 18.05.2013
As a member of the Biomechanics Lab at the Biomedical Engineering Institute, I was responsible for designing and conducting experiments, maintaining and operating laboratory equipment, keeping records and writing reports, presentations and journal articles.

*Publications:*
Yucesoy, C. A., Arikan, O. E. and Ates, F., **2012**, BTX-A Administration to the target muscle affects forces of all muscles within an intact compartment and epimuscular myofascial force transmission, *Journal of Biomechanical Engineering, 134, 111002 1-9.*

Arikan, O. E., Guclu, B., Huijing, P. A., Yucesoy, C. A., **2011**, Experimental assessment of the effects of epimuscular myofascial force transmisson in the sensory level, *International Society of Biomechanics XXIIIrd Congress.*

Arikan, O. E., Huijing, P. A., Guclu, B., Yucesoy, C. A., **2009**, Altered afferent response of restrained antagonistic muscles after passive

stretching of Gastrocnemius indicate a remarkable role of epimuscular myofascial force transmission in the sensory level. *Society for Neuroscience (SFN) Conference.*

Front Office Clerk, ARI Teknokent, 01.01.2005 - 01.06.2005

"Teknokent"s are special working spaces within a university premise -Istanbul Technical University in my case- allocated to a private company by the government where they are given room, infrastructure and tax benefits and in return they are expected to output R&D based products and services. ARI Teknokent is the firm that oversaw whether the activities of the existing and prospect companies occupying those limited work spaces justify the aforementioned perks offered. My job here was twofold: i) Help assess periodical activities of existing companies and see if they are to remain; ii) Help evaluate the applications of the candidates to make sure only suitable ones are placed.

## Internships

SIMMERK, Istanbul, 01.06.2009 - 01.07.2009

Mandatory internship for the Biomedical Engineer degree. Became familiar with how a simulation device that is used to train surgeons. Operation and maintenance of similar devices. The facility (SIMMERK = Simulasyon Merkezi i.e. Simulation Center in Turkish) was a sub-branch of the calibration department of the Ministry of Health's Istanbul office so I had a chance to make rounds in state owned hospitals in Istanbul region and observe how the medical equipment in those hospitals are calibrated and maintained.

DETAE, Istanbul, 01.01.2006 - 15.02.2006

Mandatory internship for BSc degree for Molecular Biology and Genetics. Got familiar with the methods used in a molecular biology research laboratory such as PCR, blotting techniques, gel electrophoresis and eukaryotic cell cultures. I was given a small task of isolating DNA from previously collected blood samples and use these methods to identify the presence of certain genetic diseases and disorders.

**REFERENCES** Available upon request