

# REYHANEH BOROUGHANI

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## EXPERIENCE

### Data Analyst

#### Internship at Institute of BioRobotics at Scuola Superiore Sant'Anna

March 2020 – July 2020

Pisa, IT

- Time series pre-processing: alignment, outlier detection, cleaning.
- Time series analysis and classification: time-frequency analysis, feature extraction, classification.

### Medical Representative

#### Varian Pharmed Company (golrang industrial group)

Jan 2017 – July 2018

Tehran, IR

- Promote the company products to doctors, hospitals, and pharmacies
- Travel across several cities of Iran to manage the supply and demand.

### Research and Development (R&D)

#### Varian Pharmed Company (golrang industrial group)

Mar 2017 – July 2018

Tehran, IR

- Data analysis to illustrate the market share and sales of the company

## EDUCATION

### M.S. in Bionics Engineering (Major: Neural Eng.)

#### University of Pisa and Scuola Superiore Saant'Anna

Sept 2018 – present

Pisa, IT

### B.S. in Biomedical Engineering (Major: Bioelectric Eng.)

#### Amirkabir University of Technology

Sept 2011 – Feb 2016

Tehran, IR

## PROJECTS

### Raw Primary Motor Cortex Extracellular Signals Data Analysis and Classification.

#### Internship In Institute of BioRobotics at Scuola Superiore Sant'Anna

2020 – 2020

Pisa, IT

Supervisors: Dr. Silvestro Micera, Dr. Alberto Mazzoni, Dr Fabio Val-lone

MATLAB

### Motor Neuron Pool Design and Implementation for Fa-cilitating the Prosthesis Control

#### Neural Interfaces and Bioelectronics Course Project at Scuola Su-periore Sant'Anna

2020 – 2020

Pisa, IT

MATLAB

### Next Step Prediction Task Using TDNN, RNN, and ESN

#### Computational Neuroscience Course Projects at the University of Pisa

2018 – 2019

Pisa, IT

MATLAB

### Implementation of Learning Rules, and Hopfield Network

#### Computational Neuroscience Course Projects at the University of Pisa

2019 – 2019

Pisa, IT

MATLAB

### Visual Discrimination of Geomet-ric Shapes, Encoding and Decoding Using two-layer Izhikevich Neuron model

#### Neuromorphic Course Project at University of Pisa

2018 – 2018

Pisa, IT

LabVIEW

### The Effect of Thickness of Scalp and Skull on Bioimpedance Measure-ments Using PCA Method

#### BSc Thesis at AmirKabir University of Tech-nology

2015 – 2016

Tehran, IR

MATLAB

## SKILLS AND TOOLS

Machine Learning

Deep Learning

Data Analysis

Data Mining

Design and Modelling

MATLAB

Python

C++

LabVIEW

Ansys

Weka

Cura

Autodesk Fusion 360

Microsoft Office

LaTeX

Languages:

Persian(Native)

English (C2)

Italian (A1)