



# Anas Masood

NEUROSCIENCE · COMPUTER SCIENCE · PHYSICS

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## Education

### M.S. Neuroscience

NEURASMUS: AN ERASMUS MUNDUS JOINT DEGREE SCHOLARSHIP

Universite de Bordeaux, Bordeaux

Current

### B.S. Computer Science with minor in Physics

RECIPIENT OF THE YOHSIN SCHOLARSHIP (100% FEE WAIVER)

CGPA 3.81 (OUT OF 4)

Habib University, Pakistan

2014 - 2018

### Summer Semester Exchange

NEUROSCIENCE AND ASTRONOMY

Stanford University, USA

Summer 2016

## Honors & Awards

2018 **Neurasmus**, Erasmus Mundus Scholarship

Bordeaux

2017 **Rhodes Scholarship Finalist**, Rhodes Trust

Pakistan

2016 **Dean's Medal**, Dean's List, Three consecutive semesters, School of Science and Engineering

Habib University

2014-18 **Yohsin Scholar**, Fully Funded Scholarship for Undergraduate Study

Habib University

## Experience

### Research Intern

Jean-Baptiste Sibarita, IINS, CNRS,

France

COMPUTATIONAL METHODS FOR LONG-TERM, HIGH-RESOLUTION ACQUISITION OF LIVE ORGANOID DEVELOPMENT

USING soSPIM

Current

- Python, Keras, Tensorflow
- ImageJ, Deconvolution

### Research Intern

Klaus Linkenkaer-Hansen, INF,

CNCR, Amsterdam

CRITICALITY MAXIMIZES VARIABILITY IN LONG-RANGE MULTI-SCALE SYNCHRONY IN CRITICAL OSCILLATIONS MODEL

February - August 2018

- Python, Brian2 Framework
- Matlab, Data Analysis

### Teaching Assistant

Habib University, Karachi

TEACHING TUTORIALS, PROVIDING OFFICE HOURS, AND CHECKING ASSIGNMENTS AND QUIZZES

January - May 2018

- CS 312 Algorithms II, Fall 2017
- CS 212 Nature of Computation, Spring 2018
- Math 102 Calculus II, Fall 2014
- CS 110 Computational Thinking I, Spring 2014
- CS 212 Nature of Computation, Spring 2016

### Intern

Cybernet, Karachi

FULL STACK DEVELOPMENT OF A WEB-BASED BILLING SYSTEM FOR CYBERNET

June - August 2017

## (Mini)Projects

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### **Predicting 3-Dimensional Protein Structures Using Machine Learning**

*Dr. Waqar Saleem, Habib University*

FINAL YEAR PROJECT FOR B.SC.

2018

- Python, Keras

### **Journey of the Stars, an intervention**

*Saima Zaidi, Habib University*

COURSE PROJECT, CREATING AN INTERACTIVE PLANETARIUM CONTROLLED BY HAND MOVEMENTS FOR A LOCAL PARK

*Spring 2017*

- Kinect
- C#

### **Predicting Evoked Potentials from EEG data**

*Dr. Saleha Raza, Habib University*

COURSE PROJECT, ARTIFICIAL INTELLIGENCE

*December. 2016*

- Python scikit-learn

### **Paper Review: Auditory Prostheses – Can they be used for next generation computer-brain interfaces?**

*Dr. Josiah Leung, Dr. Chris Miller,  
Stanford University*

THE AUDITORY PATHWAY AND POSSIBLE POINTS OF IMPLANTATION FOR STIMULATION ELECTRODES

*August. 2016*

## References

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### **Dr. Jean-Baptiste Sibarita**

*Interdisciplinary Institute for  
Neuroscience*

MASTER 2 INTERNSHIP SUPERVISOR - USING DEEP LEARNING TO DENOISE AND DEBLUR MICROSCOPY DATA

*January – July 2020*

### **Dr. Klaus Linkenkaer-Hansen**

*Department of Integrative  
Neurophysiology, CNCR*

MASTER 1 INTERNSHIP SUPERVISOR - CRITICAL NETWORKS EXHIBIT MAXIMAL VARIATION IN SYNCHRONY

*February – July 2019*

### **Professoor Agnes Nadjar**

*Bordeaux Neurocampus*

DIRECTOR OF NEURASMUS MASTER'S PROGRAM

*August 2018 – August 2020*

### **Dr. Waqar Saleem**

*Habib University*

BACHELOR'S THESIS SUPERVISOR: PREDICTING 3D PROTEIN STRUCTURE USING MACHINE LEARNING

*August 2017 – August 2018*