

PERSONAL INFORMATION



Zakia Khatun

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Sex Female

Date of birth 02/02/1996

Nationality Bangladeshi

EDUCATION

10/09/2018 - 11/09/2020

ERASMUS+ Joint Master Program in 'Medical Imaging and Applications'

EQF
Level 7

University of Burgundy (France), University of Cassino & Southern Lazio (Italy) & University of Girona (Spain).

• Fully funded by the **European Union**.

• Earned 120 ECTS.

• Thesis Title: Survival Time Prediction of Metastatic Melanoma Patients by Computed Tomography using Convolutional Neural Networks.

• CGPA: 7.59 on a scale of 10.

10/05/2014 - 03/02/2018

Bachelor of Science in Electrical & Electronic Engineering

EQF
Level 6

American International University-Bangladesh (AIUB), Bangladesh

• Earned 145 Credits, Major in 'Biomedical Instrumentation Measurement and Design'.

• Undergraduate Project Title: Gesture Controlled Pick and Place Robot (**Dean's Award Winner**).

• CGPA: 3.97 on a scale of 4.00.

RESEARCH EXPERIENCE

Pascal Institute – EnCoV Research Group (Master Thesis)

01/02/2020 - 24/07/2020

• Thesis:

[Survival Time Prediction of Metastatic Melanoma Patients by Computed Tomography using Convolutional Neural Networks](#)

University of Girona - UdG (M.Sc. 3rd Semester)

20/09/2019 - 08/01/2020

25/09/2019 - 05/01/2020

28/09/2019 - 05/01/2020

26/09/2019 - 03/01/2020

20/09/2019 - 02/01/2020

05/09/2020 - 07/01/2020

• Projects:

1. [To design, analyse and implement approaches for brain tissue segmentation](#)
2. [Developing Computer Aided algorithm for the diagnosis in histopathological images to classify benign vs malignant using deep learning approach](#)
3. [Developing Computer Aided Algorithm for the diagnosis in Dermoscopic images to classify melanoma vs all other types using deep learning approach](#)
4. [Image registration of chest CT volumes: 4DCT DIR-Lab Challenge](#)
5. [Demonstration of Medical Robotics in Spine Surgery using Tx60 Staubli Robot](#)

• Lecture Activity:

[What about being a neuropsychologist?](#)

University of Cassino and Southern Lazio (M.Sc. 2nd Semester)

25/02/2019 - 06/06/2019

20/02/2019 - 08/06/2019

02/03/2019 - 16/06/2019

18/02/2019 - 13/06/2019

• Projects:

1. [Breast Mass Detection using Machine Learning Algorithm](#)
2. [CT Reconstruction using Parallelization Strategy](#)
3. [Vision Application \(VIZN\)](#)
4. [Designing an Inverse Kinematics Controller](#)

University of Burgundy (M.Sc. 1st Semester)

15/09/2018 - 05/01/2019

21/09/2018 - 07/01/2019

15/09/2018 - 10/01/2019

19/09/2018 - 08/01/2019

• Projects:

1. [Automatic MRI Cardiac Segmentation in Short Axis for Left Ventricular Endocardium](#)
2. [Interest Points Detection on 3D Meshes Using Harris Operator](#)
3. [Face Recognition using Principal Component Analysis](#)
4. [Automated Inspection at soft drink bottling plant](#)

American International University - Bangladesh (Undergraduate Final Year Project)

24/04/2017 - 02/12/2017

• Project: [Gesture Controlled Pick & Place Robot](#)

RESEARCH SKILLS

Programming Languages
Deep Learning Libraries
Software
Toolkit

- Python, MATLAB, C++
- TensorFlow, Keras
- Visual Studio C++, AutoCAD, Arduino IDE, Proteus, Multisim
- Elastix, ITK-Snap, MITK, DLTK, NiftyNet

HONOURS AND ACHIEVEMENTS

- Erasmus+ Joint Master's Degree (EMJMD) **scholarship** in *Medical Imaging and Application* program (funded by European Union), covers full tuition fees and a monthly allowance (Total 42,000 EUR).
- **Dean's Award** for undergraduate final year project for securing 7th Place out of 180 projects/theses for the academic year of 2017-2018 at AIUB.
- Full time **merit-based scholarship** from American International University-Bangladesh (AIUB) for exceptional performance throughout the academic years (Around 300,000 BDT).
- **Dean's List Honour** for continuing academic excellence in each semester.

CO-CURRICULAR ACTIVITIES

2016 - 2017

Vice Chairperson

[IEEE AIUB Student Branch Women in Engineering Affinity Group \(WIE\)](#)

- Organizing different seminars and events specially for women empowerment.

04/12/2016 - 24/12/2016

Member of Event Coordination Committee

[IEEE Region-10 Student Professional Awareness Venture \(SPAve\)](#), supported by IEEE USA

02/10/2016 - 04/11/2016

Campus Ambassador

[IEEE Bangladesh Section SYW Congress 2016](#)

- Contacting organizational unit (section, student branch, affinity group etc.) chairs to inform them about IEEE Day.
- Communication with Ambassador on progression of planning events.

10/06/2016 - 22/07/2016

Volunteer

[AIUB Engineering Jubilation-2016](#)

- Responsible for organizing events which includes public relations with students, arranging different competitions for students based on engineering knowledge.

INVITED TALK

2019

Guest Speaker

IEEE AIUB Student Branch

- [Seminar](#) on 'Road to Erasmus+ Scholarship', organized by IEEE AIUB Student Branch at American International University-Bangladesh.

LANGUAGE SKILLS

Mother tongue

Bengali

Other language

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
The Medium of Instruction and examination of both B.Sc. and M.Sc. Degree was English				

REFERENCES

1. [Md. Nahian - Al - Subri Ivan](#)
Assistant Professor, Dept. of Electrical & Electronic Engineering (EEE)
American International University-Bangladesh (AIUB)
Kuratoli Road, Dhaka 1229, Bangladesh
Email: nahian.ivan@connect.polyu.hk
(Currently doing Ph.D. at 'The Hong Kong Polytechnic University in 'Applied Physics' Department)
2. [Arnau Oliver](#)
Coordinator of Erasmus+ Joint Master Program in 'Medical Imaging and Applications'
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University of Girona, Girona, Spain
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3. [Md. Saniat Rahman Zishan](#)
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Senior Assistant Professor, Dept. of Electrical and Electronic Engineering (EEE) & Computer Engineering (CoE), American International University-Bangladesh (AIUB)
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