## PERSONAL INFORMATION

# Zakia Khatun

Le Creusot, France

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Sex Female | Date of birth 02/02/1996 | Nationality Bangladeshi

**Position interested in** PhD

## EDUCATION

**10/09/2018 - 24/09/2020**

### ERASMUS Mundus Joint Master Program in 'Medical Imaging and Applications'

University of Burgundy (France), University of Cassino & Southern Lazio (Italy) & University of Girona (Spain).
- Fully funded by the **European Union**.                                                                                     EQF
- Earned 120 ECTS.                                                                                                           Level 7
- Thesis Title: Survival Time Prediction of Metastatic Melanoma Patients by Computed Tomography using Convolutional Neural Networks.

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

## 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)

- Projects:
  1. To design, analyse and implement approaches for brain tissue segmentation

  **20/09/2019 - 08/01/2020**

  2. Developing Computer Aided algorithm for the diagnosis in histopathological images to classify benign vs malignant using deep learning approach

  **25/09/2019 - 05/01/2020**

  3. Developing Computer Aided Algorithm for the diagnosis in Dermoscopic images to classify melanoma vs all other types using deep learning approach

  **28/09/2019 - 05/01/2020**
  4. Image registration of chest CT volumes: 4DCT DIR-Lab Challenge

  **26/09/2019 - 03/01/2020**
  5. Demonstration of Medical Robotics in Spine Surgery using Tx60 Staubli Robot

  **20/09/2019 - 02/01/2020**

- Lecture Activity:
  What about being a neuropsychologist?

  **05/09/2020 - 07/01/2020**

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

- Projects:
  **25/02/2019 - 06/06/2019**    1. Breast Mass Detection using Machine Learning Algorithm
  **20/02/2019 - 08/06/2019**    2. CT Reconstruction using Parallelization Strategy
  **02/03/2019 - 16/06/2019**    3. Vision Application (VIZN)
  **18/02/2019 - 13/06/2019**    4. Designing an Inverse Kinematics Controller

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

- Projects:
  **15/09/2018 - 05/01/2019**    1. Automatic MRI Cardiac Segmentation in Short Axis for Left Ventricular Endocardium
  **21/09/2018 - 07/01/2019**    2. Interest Points Detection on 3D Meshes Using Harris Operator
  **15/09/2018 - 10/01/2019**    3. Face Recognition using Principal Component Analysis
  **19/09/2018 - 08/01/2019**    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 Mundus 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 €).
- **Dean's Award** for undergraduate final year project for securing 7th Place out of 155 project/thesis groups 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**

| 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** | | | | |

English (row label for the B2 row above)

## REFERENCES

1.  Dr. Désiré Sidibé
    Professor, Université Evry Val d'Essonne - Paris Saclay
    23 Boulevard François Mitterrand, 91000 Évry-Courcouronnes, Paris, France
    **Email**: drodesire.sidibie@univ-evry.fr

2.  Md. Saniat Rahman Zishan
    Head of Computer Engineering (CoE) department
    Senior Assistant Professor, Dept. of Electrical and Electronic Engineering (EEE) & Computer Engineering (CoE), American International University-Bangladesh (AIUB)
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    **Email**: saniat@aiub.edu

3.  Arnau Oliver
    Coordinator of Erasmus+ Joint Master Program in 'Medical Imaging and Applications'
    Associate professor, Dept. of Computer Architecture and Technology
    University of Girona, Girona, Spain
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