

# Farzana Rahmat Zaki, Ph.D.

Address: 250 Central avenue, Apt. 906B, Newark, NJ 07103

Phone: 302-509-1083, Email: farzana.rahmat.zaki@gmail.com

LinkedIn: <https://www.linkedin.com/in/farzana-zaki-9bba43125/>

Google scholar: <https://scholar.google.com/citations?user=QzSMW7oAAAAJ&hl=en>

---

## CAREER OBJECTIVE

A highly energetic individual actively looking for full time research scientist/postdoctoral research position in the fields of biomedical imaging and signal processing. I have almost 4 years of research experiences in the field of optical coherence tomography (OCT), functional optical coherence tomography (Doppler OCT and optical coherence elastography).

## EDUCATION

**Ph.D.** in Electrical Engineering, New Jersey Institute of Technology (NJIT), Newark, NJ **CGPA: 3.93/4.00** 2015 – 2019

**M.Sc.** in Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, **CGPA: 3.75/4.00** 2013

**B.Sc.** in Electrical and Electronic Engineering, BUET, Dhaka, Bangladesh, **CGPA: 3.44/4.00** 2006

## RESEARCH EXPERIENCES

**New Jersey Institute of Technology (NJIT)** Newark, NJ  
PhD researcher (Dual modality OCT: technology development and biomedical applications) 2015 – 2019

**Bangladesh University of Engineering and Technology (BUET)** Dhaka, Bangladesh  
Master's researcher (Analysis of 3<sup>rd</sup> order dispersion for ultra-high-speed optical fiber communication) 2010 - 2012

**Bangladesh University of Engineering and Technology (BUET)** Dhaka, Bangladesh  
*Undergraduate researcher* (Analysis of optical fibers under external stress) 2005 - 2006

## TEACHING EXPERIENCES

**New Jersey Institute of Technology (NJIT)** Newark, NJ  
Research assistant May 2016 – April 2018

- Worked as a mentor for NSF-REU and NIH funded programs 2016 and 2017, Master's students research project and summer STEM program (REAP 2016, 2017 and Provost summer research 2017).

**New Jersey Institute of Technology (NJIT)** Newark, NJ  
Teaching assistant, ECE department Sept. 2016 – May 2019

**Eastern University, Department of Electrical and Electronic Engineering** Dhaka, Bangladesh  
Assistant Professor (Feb.,2014 – July,2015), Senior lecturer (June,2009 - February,2014) and Lecturer (March,2007 - June,2009)

## ADMINISTRATIVE EXPERIENCE

**Eastern University** Dhaka, Bangladesh  
*Program Coordinator, Faculty of Engineering and Technology* Oct.,2012 – August,2014

## COMPUTER SKILLS

**Programming languages:** MATLAB, C/C++, microcontroller programming, CUDA

**Software and tools:** Simulink, PSPICE, Microsoft Office Suite (Word, Excel, PowerPoint), Proteus, OptiSystem, OptSim

## ACADEMIC AWARDS

- Hashimoto graduate fellowship, New Jersey Institute of Technology, Sept. 2018 to May 2019
- Graduate tuition and stipend awards, New Jersey Institute of Technology, Jan.2016 to May 2019
- Graduate stipend award, REAP, July 2017 and July 2016
- University merit scholarship, Department of EEE, BUET, Dhaka, Bangladesh

## PUBLICATIONS AND CONFERENCE PRESENTATIONS

- 7 peer reviewed journal articles and 11 Conference Proceedings

**PROFESSIONAL AFFILIATION:** Member, The Institution of Engineers, Bangladesh (IEB)

**SCIENTIFIC MEMBERSHIP:** Student member, OSA; Student member, SPIE, the international society for optics and photonics

## OTHER EXPERIENCES

- Organizing Member, 3<sup>rd</sup> Bangladesh Physics Olympiad, Dhaka, Bangladesh (2013)
- Organizing Member, 1<sup>st</sup> Eastern University Mathematics Olympiad, Dhaka, Bangladesh (2010)

## REFERENCES

- Dr. Xuan Liu (Ph.D. dissertation advisor)**, Assistant Professor, ECE Department of NJIT, email: xuan.liu@njit.edu
- Dr. Haim Grebel**, Professor, ECE Department of NJIT, email: haim.grebel@njit.edu
- Dr. Durgamadhab Misra**, Professor and Graduate advisor, ECE Department of NJIT, email: dmisra@njit.edu