

Md Mahfuzur Rahman Siddiquee

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EDUCATION

Arizona State University

Ph.D. in Computer Science, GPA: 4.00/4.00

Research Area: Medical Imaging, Computer Vision, Deep Learning

Tempe, AZ, USA

2017–Current

North South University

B.S. in Computer Science and Engineering, GPA: 3.70/4.00

Dhaka, BGD

2011–2015

EXPERIENCE

Graduate Research/Teaching Assistant

Arizona State University

Tempe, AZ, USA

August 2017–Current

Applied Research Intern

NVIDIA Inc.

Santa Clara, CA, USA

May 2021–August 2021

Software Developer

Harpa Italia s.r.l

Rome, ITA

February 2016–July 2017

SELECTED PUBLICATIONS

- [1] **M. M. Rahman Siddiquee**, Z. Zhou, N. Tajbakhsh, R. Feng, M. B. Gotway, Y. Bengio, and J. Liang, “Learning fixed points in generative adversarial networks: From image-to-image translation to disease detection and localization”, in *Proceedings of the IEEE International Conference on Computer Vision*, 2019, pp. 191–200.
- [2] Z. Zhou, **M. M. Rahman Siddiquee**, N. Tajbakhsh, and J. Liang, “Unet++: Redesigning skip connections to exploit multiscale features in image segmentation”, *IEEE transactions on medical imaging*, vol. 39, no. 6, pp. 1856–1867, 2019.
- [3] Z. Zhou, V. Sodha, **M. M. Rahman Siddiquee**, R. Feng, N. Tajbakhsh, M. B. Gotway, and J. Liang, “Models genesis: Generic autodidactic models for 3d medical image analysis”, in *International Conference on Medical Image Computing and Computer-Assisted Intervention*, Springer, 2019, 384–393. [**Young Scientist Award, Best Paper Award**].
- [4] Z. Zhou, **M. M. Rahman Siddiquee**, N. Tajbakhsh, and J. Liang, “Unet++: A nested u-net architecture for medical image segmentation”, in *Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support*, Springer, 2018, pp. 3–11.

PATENTS (UNDER REVIEW)

- [1] J. Liang, Z. Zhou, **M. M. Rahman Siddiquee**, and N. Tajbakhsh, “Systems, methods, and apparatuses for implementing a multi-resolution neural network for use with imaging intensive applications including medical imaging”, US Patent App. 16/556,130, Mar. 2020.

TEACHING

- **Instructor** at Arizona State University Fall 2020, Fall 2019
Introduction to Engineering (FSE 100)
- **Teaching Assistant** at Arizona State University Fall 2020
Introduction to Programming (CSE 110)
- **Instructor** at Arizona State University Summer 2020
Introduction to Programming (CSE 110)
- **Instructor** at Arizona State University Spring 2020
CS Capstone Project I (CSE 485)

SKILLS

- **Programming:** Python, C/C++, Java, Javascript, PHP, Bash
- **Deep Learning:** Pytorch, Keras, Tensorflow, Caffe
- **Web Development:** HTML, CSS, Node.js
- **Database:** MySQL, MongoDB

LANGUAGES

- **Bangla:** native proficiency
- **English:** full professional proficiency
- **Italian:** limited working proficiency

RECENT AWARDS

- 1st Place in Fetal Brain Tissue Annotation and Segmentation Challenge (FeTA), MICCAI 2021 October 2021
- 4th Place in RSNA-ASNR-MICCAI Brain Tumor Segmentation (BraTS) Challenge 2021 November 2021
- Engineering Graduate Fellowship by Ira A. Fulton School of Engineering May 2020
- Conference Travel Grant by Graduate and Professional Student Association, Arizona State University April 2020
- Conference Travel Grant by International Conference on Computer Vision October 2019
- CIDSE Conference Travel Award by Arizona State University October 2019
- Conference Travel Grant by Graduate and Professional Student Association, Arizona State University August 2019
- Conference Travel Grant by Graduate and Professional Student Association, Arizona State University March 2019
- Outstanding Contribution in Reviewing by Journal of Biomedical Informatics June 2018
- 2nd Prize in the Annual Student Poster Competition by BMI/BMD Symposium, Arizona State University April 2018

SERVICES

- Reviewer at IEEE Transaction on Medical Imaging
- Reviewer at Journal of Biomedical Informatics
- Reviewer at Current Opinion in Biomedical Engineering
- Reviewer at Winter Conference on Applications of Computer Vision, 2020
- Travel and Research Grant Reviewer at Graduate and Professional Student Association, Arizona State University
Fall 2018–Summer 2019