

Md Mahfuzur Rahman Siddiquee

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Profile Summary. Highly accomplished and dedicated Research Scientist with a strong focus on cutting-edge Computer Vision research, specifically in the field of Medical Imaging. I am currently completing a Ph.D. in Computer Science at Arizona State University. I have been recognized for my exceptional contributions to international medical image segmentation challenges and competitions, earning prestigious first and second-place awards. In addition, I have published works in medical abnormality detection, weakly-supervised localization, and self-supervised learning. I am driven to advance the forefront of AI research and make transformative contributions as a Research Scientist. Publications are available at mrahmans.me/GScholar.

EXPERIENCE

NVIDIA Inc.

Applied Research Intern

Santa Clara, CA, USA
Summer 2021, Summer 2022

- *MONAI Auto3dseg* (docs.monai.io/en/stable/auto3dseg.html)
- Built this automated segmentation framework to quickly develop state-of-the-art segmentation models, especially for non-expert users. Our framework achieved the following awards:
 - * 1st Place in Head and Neck Tumor Segmentation Challenge (HECKTOR), MICCAI 2022
 - * 1st Place in Fetal Brain Tissue Annotation and Segmentation Challenge (FeTA), MICCAI 2021
 - * 2nd Place in Intracranial Hemorrhage Segmentation Challenge (INSTANCE), MICCAI 2022
 - * 2nd Place in Ischemic Stroke Lesion Segmentation Challenge (ISLES), MICCAI 2022
 - * 4th Place in RSNA-ASNR-MICCAI Brain Tumor Segmentation (BraTS) Challenge 2021

Arizona State University

Graduate Research Assistant

Tempe, AZ, USA
August 2017–Current

- Patented 4+ inventions and published 10+ research papers in top conferences including CVPR, ICCV, MICCAI, and top journals including TMI, MedIA. My publications have received 6000+ citations.

Harpa Italia s.r.l

Software Developer

Rome, ITA
February 2016–July 2017

- Developed and delivered an energy consumption monitoring system.

EDUCATION

Arizona State University

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

Tempe, AZ, USA
2017–2023 (expected)

Research Area: Medical Imaging, Computer Vision, Deep Learning

North South University

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

Dhaka, BGD
2011–2015

SKILLS

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

SERVICES

- **Journal Reviewer:** IEEE Access, JBI, MedIA, IEEE TBME, IEEE TIP, IEEE TMI
- **Conference Reviewer:** AAAI 2023, AAAI 2022, CVPR 2023, CVPR 2022, ECCV 2022, ICCV 2023, WACV 2020