Maria Szegedy

60 Franklin Drive
Hillsborough, New Jersey 08844
+1 (908) 642-4336
mszegedy@tutanota.com
Github, Gitlab, Discord

See also my online CV:

`https://mszegedy.github.io`

EDUCATION & CERTIFICATIONS

AWS Certified Solutions Architect—Associate
> Issued 2024 May 10
> Expires 2027 May 10

Available at `https://mszegedy.github.io/cv/assets/pdfs/aws-solutions-architect-assoc-cert.pdf`.

Bachelor of Science, in Biomedical Engineering (Tissue Engineering and Molecular Bioengineering option)
> Additional major in Molecular Biology and Biochemistry
> Additional major in Physics (professional option)

Rutgers University, New Brunswick, NJ, August 2021

PUBLICATIONS

Leman, J.K., Weitzner, B.D., Lewis, S.M. *et al.* Macromolecular modeling and design in Rosetta: new methods and frameworks. *Nat Methods* **17**, 665–680 (2020). doi: 10.1038/s41592-020-0848-2.

EXPERIENCE

Research Assistant   2017–2020
Rutgers University, Department of Quantitative Biomedicine, Piscataway, NJ

- Research assistant to Professor Sagar Khare.
- Used PyRosetta to investigate thermostability of certain designed proteins.
- Wrote API to allow use of molecular dynamics within Rosetta; presented it at RosettaCon 2018 and 2019.

Programming Instructor & Tutor   Fall 2019–Spring 2020
Rutgers IEEE N2E Coding Club, Rutgers University

- Gave weekly lessons on MATLAB to first years for N2E Coding Club.
- Tutored biomedical engineering graduate students on Mathematica.

RELEVANT COURSES

Intro to Computing for Engineers:
MATLAB. Received A.

Computer-based Experimentation in Physics:
Signal-processing benchwork and computation. Received A.

Modern Physics Experimentation:
Intense, around-the-clock work with complex physics workflows and equipment. Received B+.