

Rachel E. Godfrey
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[racheleg22.github.io](https://github.com/racheleg22)

EDUCATION

Northwestern University – Evanston, Illinois (December 2022)

- Master of Science Biomedical Engineering with concentration in data and software
- Relevant courses: Statistical Learning for Data Analysis, Applied Linear Algebra, Introduction to the Data Science Pipeline, Biomedical Applications in Machine Learning, Computation Genomics.
- Skills: Python, R, Matlab, Tableau, OpenRefine, machine learning algorithms, feature engineering, signal processing.

Wayne State University - Detroit, Michigan (May 2020)

- Bachelor of Science, Biomedical Physics
- Honors College Student, Wayne State Society of Physics Students, Community of Scholars
- Awarded William C. Ford, Jr. Scholarship, Barber Interdisciplinary Research Program, Summer 2019, Fall 2019

EXPERIENCE

Rush University Medical Center, Chicago Illinois (September 2022 – present)

Research Engineer, Devices Team

- Work with wearable devices containing inertial measurement unit and physiological sensors applied to research dedicated to understanding human mobility in relation to cognition.
- Develop algorithms to create graphic user interface to visualize, identify and extract mobility metrics to aid primary research motives.
- Conduct literature search to identify and select best research objectives with existing data.
- Ensure proper collection and processing of data from wearable devices for mobility research.

University of Michigan Kellogg Eye Center, Ann Arbor Michigan (November 2020 – August 2021)

Medical Assistant, Department of Neuro-Ophthalmology

- Carried out testing including Humphrey Visual Fields, visual acuity, color vision and intraocular pressure
- Recognize concerns and offer empathy to patients undergoing medical care in the clinic
- Prepped patients for in clinic procedures using sterile technique
- Remained alert and focused during clinical procedures and utilized teach-back method to guarantee safe environment for every patient.
- Facilitate efficient clinic flow by conducting patient interviews and scribing for physicians

House of Optical, Clawson, Michigan (July 2020 – November 2020)

Ophthalmic Technician

- Administered ophthalmic medical testing including fundus photography, Optical Coherence Tomography, Humphry Visual Field and autorefractor
- Guided patients through procedures to obtain reliable results and ensure comfort throughout medical testing
- Assessed images for clear and reliable data for physician use, determined when testing needed to be repeated

LEADERSHIP EXPERIENCE

Wayne State Global Brigades, member (January 2017- August 2019) **President** (Fall 2018), **Supplies Committee Chair** (Fall 2017)

- Contacted companies with philosophies that align with Global Brigades for supply donations, coordinated fundraisers and communicated event details to successfully raise funds for medical supplies
- Developed and improved record keeping of supplies with Microsoft Excel based on observations of previous brigade
- Assisted clinical personal in conducting triage, consultation, visited schools and homes to provide basic health education, and conducted surveys to gather and record data of living conditions.