

# MOUSTAFA HABRA

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Senior at UMich studying **Biophysics** and **CS** on a pre-med track. Very interested in how computer science can play a role in medicine.

## EXPERIENCE

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| <b>Teaching Assistant, University of Michigan</b>   | <b>AUG 2022 – Present</b>  |
| <ul style="list-style-type: none"><li>• Teaching assistant role for Biophysics 450/550, the biophysics lab class.</li><li>• Graded student papers and answered student questions</li><li>• Set up experiments and assisted the professor and GSI with various tasks</li></ul> |                            |
| <b>Volunteer, Beaumont Hospital</b>   | <b>DEC 2021 – Present</b>  |
| <ul style="list-style-type: none"><li>• Volunteered on the Medical/Surgical floor</li><li>• Helped patients with simple comfort care</li><li>• Assisted nurses, and aided in administrative tasks.</li></ul>  |                            |
| <b>Research Assistant, UMich Radiology</b>  | <b>FEB 2020 – DEC 2020</b> |
| <ul style="list-style-type: none"><li>• Assisted Dr. Scott Swanson with biophysics research</li><li>• Specifically nanobubble simulation in MRI research, and its possible use as contrast in MRI</li></ul>   |                            |
| <b>Resident Caregiver, First &amp; Main Assisted Living</b>   | <b>JUN 2021 – AUG 2021</b> |
| <ul style="list-style-type: none"><li>• Assisted with caring and serving elderly residents</li><li>• Became especially involved with activities, and started a book club initiative.</li></ul>  |                            |
| <b>Service Mechanic, D&amp;D Bicycles and Hockey</b>  | <b>JUN 2020 – AUG 2020</b> |
| <ul style="list-style-type: none"><li>• Built Giant brand bicycles</li><li>• Learned how to service old bicycles.</li></ul>   |                            |
| <b>Gifts of Art Volunteer, Michigan Medicine</b>  | <b>FEB 2020 – APR 2020</b> |
| <ul style="list-style-type: none"><li>• Would visit patients in their rooms, and change art on their wall if needed.</li><li>• Highly rewarding, as I could interact with many patients directly.</li></ul>   |                            |
| <b>Research Assistant, Beaumont Hospital</b>  | <b>FEB 2020 – APR 2020</b> |
| <ul style="list-style-type: none"><li>• Worked in research with the colorectal department,</li><li>• Contributed to a published medical study, dealing with the ERAS protocol and admission day of the week its effect on length of stay.</li></ul>                           |                            |

## EDUCATION

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|---|-----------------------|
| <b>University of Michigan, BS Biophysics; CS Minor</b>                      | <b>2019 – Present</b> |
| <b>International Academy, IB diploma</b>                                    | <b>2015 – 2019</b>    |
| <ul style="list-style-type: none"><li>• Graduated Summa Cum Laude</li></ul> |                       |

## SKILLS

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- Python, C++, MATLAB, shell scripting, Excel
- Fluent in English, Arabic, & Spanish
- Biophysics Lab Techniques: Circular Dichroism, Calorimetry, IR spectrometry, Protein Extraction & Purification, NMR, Molecular Dynamics

## ACTIVITIES

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- President of the **Biophysics Club**
  - Active member since 2019
- **Panel for Your Thoughts**
  - Philosophy Club where fellow students and I would discuss a wide range of subjects, from medical ethics to Kantian morals.

- **Students Organize 4 Syria** Refugee Volunteer
  - Gave lessons in Arabic & English to Syrian Refugees