

# Lamis Hammouda

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## EDUCATION

### University of North Carolina at Chapel Hill

Chapel Hill, NC

*Bachelor of Science in Biomedical Engineering, Minor in Chemistry*

2020 – 2024

- Chancellor's Science Scholar
- **Research interests:** Biocomputation, Microdevices, and Biomaterials.

### Rowan Cabarrus Community College

Concord, NC

*Associates of Science, GPA: 3.96*

2016-2020

## EXPERIENCE

### Freeman Lab, Applied Physical Sciences Department

Chapel Hill, NC

*Undergraduate Researcher*

2021 – present

- Collaborate on a team of staff, graduate students, and post docs on a biomaterials project focusing on the design and optimization of an active multicompartamental particle system.
- Develop critical reading and research skills by learning from relevant literature to contribute to experimental design.
- Gain an understanding of and perform laboratory techniques, microscopy, data collection, and data analysis using ImageJ and Excel.
- Engineer and optimize a microfluidics system and trained staff and graduate students.

### Helping Hands

Chapel Hill, NC

*Member*

2021 – present

- Work with a design team of undergraduate students from diverse academic backgrounds to 3D print, test, and produce custom prosthetic hands for children.
- Use CAD software to design a prosthetic with specific challenges

### UNC Chemistry Department

Chapel Hill, NC

*Peer Mentor*

2021

- Supported professor during general and analytical chemistry lectures by answering questions and fostering a deeper understanding of chemistry concepts in students.
- Created high level chemistry content and lead weekly problem-solving sessions help students succeed and understand chemistry while working on my educational and critical thinking skills.

### MEC Preschool

Charlotte, NC

*English Preschool Teaching Intern*

2019 – 2020

- Created lesson plans that engaged young children and developed their English letters, words, and writing skills through innovative activities.
- Collaborated with teachers in other subjects and grade levels.
- Designed a weekly newsletter and directly communicated with parents on their student's education.

### 4H Cobra Teachers

Concord, NC

*Vice President*

2019 – 2020

- Taught science workshops at elementary schools to foster the love of STEM in children and completed 4-week training session on how to effectively teach and communicate with children of different age groups.

### Riyadh Al-Saleheen School

Marvin, NC

*Assistant Kindergarten Teacher*

2018 – 2020

- Collaborated with teacher to prepare engaging activities and teach Arabic and Islamic studies and lead classroom activities when teacher was absent or unavailable.

## SKILLS

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**Computer:** Programming (Python and MATLAB), UI Design (HTML/CSS), CAD (On Shape and SolidWorks), Microsoft Office, Image Processing (ImageJ)

**Languages:** Arabic (Native), English (fluent)

## REFERENCES

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**Romero, Noelle-Erin**

*Program Coordinator for Chancellor's Science Scholars Program*

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**Ronit Freeman**

*Associate Professor in Applied Physical Sciences Department of UNC Chapel Hill*

- Email: [ronifree@email.unc.edu](mailto:ronifree@email.unc.edu)

**Bliem, Carribeth**

*Teaching Assistant Professor in Chemistry Department of UNC Chapel Hill*

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