

Majd Haddad (Majood)

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EDUCATION

- 2021-2023 M.S. in Biomedical Engineering at the University of Oklahoma Stephenson School of Biomedical Engineering; Norman, OK
- GPA: N/A
- 2018-2022 B.S. in Biomedical Engineering at the University of Oklahoma Stephenson School of Biomedical Engineering; Norman, OK
- GPA: 3.87 on 4.00 scale
- 2016-2018 United World College Robert Bosch College, Freiburg Im Breisgau, Germany
- GPA: 3.76 on 4.00 scale

HONORS AND AWARDS

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|--------------|--|------------|
| 2022 | Dolese Fellowship Recipient | Norman, OK |
| 2021 | Mote Endowed Engineering Scholarship Recipient | Norman, OK |
| 2021 | Tomorrows Engineer Scholarship Recipient | Norman, OK |
| 2019-Present | Member of Oklahoma Alpha Lambda Delta Honor Society | Norman, OK |
| 2019-Present | University of Oklahoma Gallogly College of Engineering Dean's List | Norman, OK |
| 2021-Present | Member of Oklahoma Alpha Chapter of Tau Beta Pi | Norman, OK |
| 2020-2021 | University of Oklahoma President's Honor Roll | Norman, OK |
| 2018-2022 | UWC Davis Scholar | Norman, OK |

PUBLICATION RECOGNITIONS AND INTERVIEWS

- 2022 Yang, W., Wang, L., Fang, M., Sheth, V., Zhang, Y., Holden, A. M., Donahue, N. D., Green, D. E., Frickenstein, A. N., Mettenbrink, E. M., Schwemley, T. A., Francek, E. R., **Haddad, M.**, Hossen, M. N., Mukherjee, S., Wu, S., DeAngelis, P. L., & Wilhelm, S. (2022). Nanoparticle Surface Engineering with Heparosan Polysaccharide Reduces Serum Protein Adsorption and Enhances Cellular

- Uptake. *Nano Letters*, 22(5), 2103–2111.
<https://doi.org/10.1021/acs.nanolett.2c00349>
- 2021 Donahue, N. D., Kanapilly, S., Stephan, C., Marlin, M. C., Francek, E. R., Haddad, M., Guthridge, J., & Wilhelm, S. (2021). Quantifying Chemical Composition and Reaction Kinetics of Individual Colloidally Dispersed Nanoparticles. *Nano Letters*, 22(1), 294–301.
<https://doi.org/10.1021/acs.nanolett.1c03752>
- 2021 Yan, F., Gunay, G., Valerio, T. I., Wang, C., Wilson, J. A., **Haddad, M. S.**, Watson, M., Connell, M. O., Davidson, N., Fung, K.-M., Acar, H., & Tang, Q. (2021). Characterization and quantification of necrotic tissues and morphology in multicellular ovarian cancer tumor spheroids using optical coherence tomography. *Biomedical Optics Express*, 12(6), 3352.
<https://doi.org/10.1364/boe.425512>

PUBLICATION OVERVIEW

Accessed from Google Scholar on 1/25/2022

Citations: 12

H index: 2

I10-index: 0

Google Scholar: <https://scholar.google.com/citations?user=M0EkIbgAAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0002-6623-9458>

PUBLICATIONS

Published/accepted

3. W. Yang, L. Wang, M. Fang, N. Donahue, V. Sheth, A. M. Holden, A. Frickenstein, E. M. Mettenbrink, T. A. Schwemley, E. R. Francek, **M. Haddad**, N. Hossen, P. Mukherjee, S. Wu, D. Green, P. L. DeAngelis, S. Wilhelm, “Nanoparticle Surface Engineering with Heparosan Reduces Protein Adsorption and Enhances Cellular Uptake.” *Nano Letters*, 2022. Accepted.
2. N. D. Donahue, S. Kanapilly, C. Stephan, C. Marlin, E. R. Francek, **M. Haddad**, J. Guthridge, S. Wilhelm, “Quantifying Chemical Composition and Reaction Kinetics of Individual Colloidally Dispersed Nanoparticles.” *Nano Letters*, 2021.
DOI: 10.1021/acs.nanolett.1c03752
1. Yan, F., Gunay, G., Valerio, T. I., Wang, C., Wilson, J. A., **Haddad, M. S.**, Watson, M., Connell, M. O., Davidson, N., Fung, K.-M., Acar, H., & Tang, Q. (2021). Characterization and quantification of necrotic tissues and morphology in multicellular ovarian cancer tumor spheroids using optical coherence tomography. *Biomedical Optics Express*, 12(6), 3352.
<https://doi.org/10.1364/boe.425512>

PRESENTATIONS

October 6-9, 2021 Presented "Evaluating Colloidal Stability and Shelf Life Of Surface-Modified NPs Under Various Conditions" in Biomedical Engineering Society (BMES) 2021 Annual Meeting Orlando, Florida

LEADERSHIP

2020	Alpha Lambda Delta Chair Committee	Norman, OK
	<ul style="list-style-type: none"> • Selected new members for Alpha Lambda Delta Honor Society • Organized social events • Ensured that the community is welcoming and safe for everyone 	
2019-2020	United World College (UWC) Student Mentor	Norman, OK
	<ul style="list-style-type: none"> • Mentored two UWC freshmen once they attended the University of Oklahoma • Helped them get accustomed to the university and answered any questions they had • Supported the mentees through monthly check-ins • Built relationships with mentees 	
2019-2020	Food Services Student Supervisor	Norman, OK
	<ul style="list-style-type: none"> • Supervised student workers and ensured that work gets done • Created a nice and comfortable working environment for the student workers while maintaining professionalism • Ensured the safety of the customers and that their needs were met 	
2016-2018	Baking CAS Leader	Freiburg, Germany
	<ul style="list-style-type: none"> • Had to come up or find recipes for the team to follow • Bought the ingredients needed and submitted it to the high school • Turned on some music and baked together with the members • Ensured that the environment is welcoming for everyone • Rotated the rounds so that each members takes the lead at least once and comes with different recipes 	
2016-2018	Freiburger Tafel CAS Leader (Food Bank)	Freiburg, Germany
	<ul style="list-style-type: none"> • Worked at the food bank • Helped the less fortunate people by providing them with food and necessities at a lower price • Learnt German to be able to communicate with the workers and the customers 	

- Led this extracurricular activity at my high school

COMMUNITY ENGAGEMENT AND SERVICE

2020-Present	University of Oklahoma Arab Student Association (ASA)	Norman, OK
	<ul style="list-style-type: none"> • Planned events and joined in events that resembled part of the cultured • Perform in cultural nights 	
2019-2021	University of Oklahoma Okie Belles	Norman, OK
	<ul style="list-style-type: none"> • Planned events to help the community • Did community service 	
2019-2021	University of Oklahoma International Advisory Committee (IAC)	Norman, OK
	<ul style="list-style-type: none"> • Discussed concerns regarding international students • Planned events 	
2018-2021	University of Oklahoma Association of SouthEast Asian Nations (ASEAN)	Norman, OK
	<ul style="list-style-type: none"> • Met with student from Southeast Asia • Planned events 	
	Performed in cultural nights	
2018-Present	University of Oklahoma Anime Society Club	Norman, OK
	<ul style="list-style-type: none"> • Watched anime every single session • Shared a passion for the sport with like-minded individuals 	
2018-Present	University of Oklahoma The United World (TUW)	Norman, OK
	<ul style="list-style-type: none"> • Performed in cultural nights • Supported the community • Helped in setting up events 	

PROFESSIONAL MEMBERSHIPS

2021-Present	Tau Beta Pi (TBP)
2018-Present	Biomedical Engineering Society

EMPLOYMENT

2022	University of Oklahoma Stephenson School of Biomedical Engineering Teaching Assistant	Norman, OK
2022	University of Oklahoma Department of Chemistry Teaching Assistant (General Chemistry I Recitation and Lab Instructor)	Norman, OK
2021	University of Oklahoma Stephenson School of Biomedical Engineering Grader	Norman, OK
2021		Norman, OK

2021	University of Oklahoma Sooner Card Office Assistant	Norman, OK
2020	Wilhelm Lab Assistant Researcher	
2020	University of Oklahoma Department of Biology Teaching Assistant	Norman, OK
2020	Tutor	Norman, OK
2019	Office Assistant	Norman, OK
2018	Food Services	

LABORATORY SKILLS

Dynamic Light Scattering (DLS)	Nanoparticle Synthesis
Gel Electrophoresis	Confocal Laser Scanning Microscopy (CLSM)
Hemocytometer	Flow Cytometry
Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Sterile Cell Culture Techniques
Light Microscopy	UV-VIS Spectrophotometry
Cell Passaging	Centrifugation
Fluorescence/Absorbance Reader	Plasma Treatment
PEG/HEP Conjugation	

SOFTWARE SKILLS

C#	Prism GraphPad
Image Analysis (FIJI, ImageJ)	Python (and Flutter)
MATLAB	SOLIDWORKS
R	

LICENSES AND CERTIFICATION

Jan 2022- Jan 2025	CITI Program Responsible Conduct of Research <ul style="list-style-type: none"> Credential ID 46652274
Sept 2020	Lead 365 Alpha Lambda Delta Academic Honor Society
Nov 2020	Learning Computer Security and Internet Safety
May 2016	International Computer Drivers License (ICDL) ICDL Certification