

**Rani Baidoun**  
Curriculum Vitae

Vagelos Building, 3340 Smith Walk  
Philadelphia, PA, 19104

Email: Baidoun@seas.upenn.edu

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**EDUCATION**

Ph.D.	Ph.D. Candidate in Chemical and Biomolecular Engineering University of Pennsylvania, PA, USA. Principal Investigator: <i>Dr. Dohyung Kim</i> <b>GPA: 3.96</b>	Exp. 2027
B.S.	P.C. Rossin College of Engineering & Applied Sciences, Lehigh University, PA, USA, <b>GPA: 3.92</b> <i>Major:</i> Chemical and Biomolecular Engineering <i>Minor(s):</i> Economics <i>Concentration(s):</i> Biomolecular Engineering	2022

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**AWARDS, SCHOLARSHIPS, & GRANTS**

May 2021	Alumni Experiential Learning Award
April 2021	William H. Chandler Prize in Chemical Engineering (awarded to the highest-ranking student in the department)
2018-2022	Dean's list, Lehigh University
2019-2022	Technology, Research, and Communications Fellow
2018-2022	Davis United World College Scholar (undergraduate scholarship for \$10,000/year for 4 years)

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**PUBLICATIONS**

2. Li, Z., Baidoun, R., and Brown, A.C. Development of a Toxin-Triggered Liposomal Antibiotic Delivery Vehicle for the Treatment of *Aggregatibacter actinomycetemcomitans*. *Submitted to ACS Infectious Diseases*
1. Baidoun, R. & Kim, D. Doubling up on supports: Stabilizing iridium for oxygen evolution. *Chem Catalysis* **3**, 100696 (2023).

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**PRESENTATIONS**

1. Baidoun, R. (09/24/2021). Targeted Drug Delivery and Efflux Inhibition Through the Use of Liposomes. Chemical Engineering Research Symposium, Lehigh University, Bethlehem, United States

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## PROFESSIONAL EXPERIENCE

2021 January- 2022 May	Undergraduate Research Assistant, Dr. Angela Brown, Dept. of Chemical and Biomolecular Engineering, Lehigh University, Bethlehem, Pennsylvania
2021/2020 (Fall)	Teaching Assistant (TA), CHE 031 – Material and Energy Balances of Chemical Processes
2021 (Fall)	Teaching Assistant (TA), CHE 151- Chemical Engineering Heat Transfer
2020 June- December	Undergraduate Research Assistant, Dr. Jeetain Mittal, Dept. of Chemical and Biomolecular Engineering, Lehigh University, Bethlehem, Pennsylvania
2019 September- December	Undergraduate Research Assistant, Dr. Javier Buceta, Dept. of Chemical and Biomolecular Engineering, Lehigh University, Bethlehem, Pennsylvania
2019-2020	Technology, Research, and Communication Fellow (Writing mentor) Lehigh University, Bethlehem, PA, USA.
2019 June- July	Engineering Mentor, Summer Engineering Institute (Lehigh University), Bethlehem, PA, USA.

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## SERVICE AND OUTREACH

- English and Arabic translator for an English poetry class for young women in refugee camps. Al-Sama Organization in Lebanon. (2020)
- International Orientation Leader, Lehigh University, Bethlehem, PA (2019 – 2020)
- Initiation Chair, Tau Beta Pi Honors Engineering Fraternity, Lehigh University (2020)
- Founding Member, MESU Student Organization, Lehigh University (2018).

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## PROFESSIONAL ASSOCIATIONS

- American Institute of Chemical Engineers (AIChE)

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## SKILLS & METHODS

Experimental skills in electrochemistry and electrochemical systems, NMR

Engineering problem-solving using Matlab, Python, and Arduino.

Languages: Arabic: Native, English: Native, Hebrew: Proficient