

# Nour Tormos

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## Education

**American University of Beirut (AUB); GPA: 4.0/4**

Major in Chemical Engineering (Bachelor of Engineering)

**Beirut, Lebanon**

Aug 2021 – May 2025

## Experience

**Stanford University, Cargnello Group, Department of Chemical Engineering**

**Stanford, CA**

Undergraduate Research Fellow

June – Aug 2024

- Selected among 30 people across the world for the Summer Undergraduate Research Fellowship (SURF) program
- Utilized spectroscopic techniques (XRD, XRF, TEM, EDS), chemisorption, and varied reactor conditions to characterize nanoparticles and identify thermal deactivation effects
- Proved the stabilizing effect of tungsten addition to platinum-based catalysts synthesized colloiddally for propane oxidation

**American University of Beirut**

**Beirut, Lebanon**

Research Assistant

June 2023 - Present

1. Under the supervision of Prof. Fouad Aziz:
  - Project 1 (completed): Explored through a literature review the integration of carbon capture with concentrated solar power for enhanced absorption
  - Project 2 (completed): Quantified power consumption trends in bioreactors through a literature review
2. Under the supervision of Prof. Joseph Zeaiter (completed): Investigated and characterized optimal catalysts for hydrogen-rich syngas production in chemical looping
3. Under the supervision of Prof. Elsa Maalouf:
  - Project 1 (ongoing): Conducting surveys and interviews with female engineering alumnae to understand their career paths and their retention in engineering
  - Project 2 (ongoing): Conducting a quantitative analysis of data to quantify women's engineering education participation

**American University of Beirut**

**Beirut, Lebanon**

Teaching Assistant

Jan 2023 - Present

- Delivered problem-solving sessions to 70+ undergraduates in thermodynamics I & II and in "Introduction to Chemical Processes"

## Publications

1. "An Analysis of Women's Pathways in Engineering Education and Early Careers in Lebanon", **Nour Tormos**, Aya Mouallem, Jana Sabra, Rasha Malaeb, Elsa Maalouf. *In progress*

2. “Engineering Education in Lebanon: Gender Trends Over a Decade”, **Nour Tormos**, Aya Mouallem, Elsa Maalouf. *In progress*

### Presentations

#### **SURF 2024 Poster Symposium**

August 2024

Title: “Colloidal nanoparticles for propane oxidation: understanding the stability of Pt-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-WO<sub>3</sub> catalysts” – **Nour Tormos**, Jinwon Oh, Matteo Cargnello

### Awards

MEPI-TLS scholarship (2023-2024), Dean’s list (6/6 semesters), Stanford Engineering’s Summer Undergraduate Research Fellowship (SURF) 2024

### Leadership

#### **American Institute of Chemical Engineers (AIChE), AUB Chapter**

##### **Treasurer – Vice President**

October 2023 - Present

- Executed engineering workshops and industry visits for undergraduate students
- Working on hosting the AIChE Student Regional Conference (SRC) in June 2025, for the second time only in Lebanon

##### **All Girls Code – Director**

March 2023 - Present

- Launched and managed educational events welcoming 200+ girls while overseeing a team of 50+ volunteers
- Writer and co-manager of a newsletter delivered to an international community of 500+ members

##### **AUB Outlook Magazine – Staff Write**

Oct 2023 – May 2024

- Published articles in “Books & Literature” and “Gender, Sexuality & Relationships” sections of student-led newspaper

##### **Women at Work Club – Member at large**

Oct 2023 – May 2024

- Raised 800\$ for “Wing Women Lebanon” to provide women with menstrual products through organizing period poverty awareness booths on campus

##### **Lebanese Red Cross, Youth Sector – Volunteer**

Sept 2021 – Dec 2023

- Head of Center – Managed center with 60+ members
- Facilitator – Provided trainings to school students on the environment and social values

### Skills

- Languages: Fluent in Arabic, French, and English
- Computer applications: MATLAB, Python, ASPEN HYSYS/Plus, AutoCAD, LabVIEW
- Experimental: XRF, BET, XRD, EDS, TEM, TGA, colloidal synthesis