

# Kate Kimball

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## EDUCATION

**The University of Texas at Austin**

May 2026

Bachelor of Science in Chemical Engineering

- **GPA:** 3.97
- **Relevant coursework:** Transport Phenomena, Biochemical Engineering, Physical Chemistry, Organic Chemistry I & II, Introduction to Chemical Engineering Analysis

## EXPERIENCE

**Undergraduate Research Assistant**, The University of Texas at Austin

August 2023 – Present

Advisors: Dr. Manish Kumar, RJ Vogler

- Developing more scalable and rapid methods for biomimetic membrane synthesis
- Determine water permeance and solute rejection properties of membranes
- Synthesize 2D nanomaterials from membrane proteins and block copolymers

**Undergraduate Research Assistant**, Texas Woman's University

June 2023 – August 2023

Advisor: Dr. John Beatty

- Collected data on the use of CO<sub>2</sub> plasma to create oxygen and carbon monoxide.
- Used RGA and FTIR and learned basic operation of GC-MS and NMR.
- Assisted in trouble-shooting the plasma, vacuum, and RGA set-up (dealt with accumulation in vacuum chamber by using smaller diameter capillaries and lowering flow rates, found problems with changing gas density, and fixed with different capillary sizes, dealt with power supply issues)

**Global Youth Citizenship Education Intern**, Chasing Two Rabbits at Once

July 2020 – May 2022

- Chasing Two Rabbits at Once is a non-profit that creates and helps provide preschool education to the Baka, an indigenous group in Eastern Cameroon, that honors their community and culture and builds literacy skills.
- Developed, executed, and participated in a pen pal program between eight US students (from Texas and Pennsylvania) and Cameroonian youth and began a program for US high schools to connect via clubs to the Baka.

## AWARDS

**Honorable Mention in New York Times STEM Writing Contest**

April 2021

- Was chosen as one of 36 honorable mentions for writing a scientific article: "Direct Air Capture: A Solution for a Carbon Neutral Future".

**9<sup>th</sup> place in FBLA Nationals for Social Media Campaign**

July 2019

- Planned and presented on a proposed social media campaign to elicit donations on Giving Tuesday, won 1<sup>st</sup> in regionals, 1<sup>st</sup> in state (PA), and 9<sup>th</sup> nationally for presentation.

**AP Scholar with Distinction**

August 2022

**National Merit Commended Scholar**

March 2021