

# CAITLIN THERIEN

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## Education

Columbia University PhD Biomedical Engineering	New York, NY Expected May 2028
Columbia University MS Biomedical Engineering	New York, NY Expected Dec 2023
University of Texas at Austin Honors BS Chemical Engineering	Austin, TX May 2022

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## Leadership Experience

Registration Chair for Girls Science Day at Columbia University (New York, NY) Recruited over 250 middle school students for the event, facilitated registration operations (sign-ups, communications with parents and faculty, etc.), created and managed master list with over 200 schools, coordinated operations and event details the day-of	Jan 2023 – Present
Academic & Philanthropy Chair for BME Graduate Organization (New York, NY) Organize multiple events to showcase current graduate research at Columbia, coordinate philanthropic outreach events (mentoring at elementary schools, food drives, assist at homeless shelters, and provide experiment leaders for Girls Science Day)	Jan 2023 – Present
Hypothekids Teacher and Experiment Leader (New York, NY) Chosen to teach the foundational principles of biochemistry and molecular interactions to 30 minority high school students from underrepresented areas across New York. Led an experiment to introduce the production of alginate beads to introduce methods of drug delivery and tissue engineering methods.	June 2023

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## Community Outreach

New York City Parks Volunteer	June 2023 – Present
Stone Oak Methodist Hospital Volunteer	2017 – 2022
Girls Science Day Group Leader Led and taught 10-20 middle school girls each semester through different experiments, guided around campus, facilitated girls science day operations, served as liaison between parents and children during pick-up/drop-off	2020 – 2023
Student Engineers Educating Kids (SEEK) Instructed and introduced Austin ISD underprivileged youth to various engineering disciplines to encourage the pursuit of a STEM education	Spring 2020
Catholic Charities Disaster Relief Mission Trip Traveled over 1200 miles to aid Catholic Charities in repairing at least 100 homes, clearing debris, feeding the homeless, and community outreach following hurricane disaster	Winter 2020

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## Research and Work Experience

Columbia Engineering: Hess Lab Explored axonal biomechanical integrity and fluid dynamics to maintain laminar flow and analyze surrounding internal microtubule structures in fascicles Designed experimental protocols for newly attained grant that studies the complexing of an organic ion with an oligopeptide using DNA hybridization stabilization and metal-ion interactions	Jun 2022 – Present
Tutoring K-12 and collegiate level in STEM	2017 – Present