

Christina Jordan

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Education

B.S. IN CHEMICAL AND BIOMOLECULAR ENGINEERING | MAY 2028 | GEORGIA INSTITUTE OF TECHNOLOGY

- **Courses:** Computing for Engineers, Data-Driven Process Engineering (Audit), Numerical Methods (Audit)

Experience

UNDERGRADUATE ENGINEER - DATA ANALYST | ZEODAC | SEPTEMBER 2025–PRESENT

- Collaborated with engineers to design and document experimental workflows for carbon capture systems
- Developed reproducible Python pipelines for analyzing process data and validating model outputs
- Identified and resolved bugs in pre-deployment scripts to ensure runtime integrity and data traceability
- Participated in team meetings to share technical updates, discuss deliverables, and refine project timelines

BIOMEDICAL ENGINEERING RESEARCH ASSISTANT | GEORGIA INSTITUTE OF TECHNOLOGY | DECEMBER 2024–APRIL 2025

- Supported preterm birth device pretesting under regulated lab conditions
- Helped draft reports and troubleshoot device setups for NIH grant proposal submission
- Documented findings, tracked experiment data, and participated in team troubleshooting sessions

Projects & Research

DATA-DRIVEN OPTIMIZATION OF POLYMER MILLING MODELS USING PYTHON

Data-Driven Process Systems Engineering Lab | Georgia Institute of Technology | May 2025 – Present

- Modeled a 50-ODE mechanochemical milling process in Python to simulate polymer molecular weight distribution
- Estimated key kinetic parameters using inverse modeling techniques, improving simulation time by 80%
- Presented iterative results in team meetings and updated documentation for collaborative development
- Applied systems thinking to ensure modular code design and reproducibility

Skills

- **Technical Tools:** Python (Pyomo, Pandas), Excel, PowerPoint, MATLAB, Git, Jupyter
- **Areas of Knowledge:** Data Analysis, Process Engineering, Systems Engineering
- **Soft Skills:** Stakeholder Collaboration, Problem-Solving, Written Communication, Adaptability, Cross-Functional Leadership

Campus Involvement

- **Executive Round Table:** Selected among top student leaders to engage with Fortune 500 executives during monthly dinners for professional development
- **Christian Campus Fellowship:** Organized campus events, mentored incoming students, and led small group discussions
 - *Sophomore Leadership Team (aka Branch Barks)*
- **American Institute of Chemical Engineers:** Attend industry talks and manage sponsorships and financing for 2026 AIChE Southern Regional Conference
 - *GT AIChE Conference Committee Member*