Robyn Burger
she/they

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LinkedIn:
Robyn-Burger

EDUCATION
Cornell University - GPA: 3.836   **Aug. 2022 - May 2025 (expected)**
B.A. Mathematics, B.A. Computer Science
- President, Triphammer Cooperative: Oversees all daily, administrative, and legal logistics of 20-person, student-governed house.
- Cornell Outdoor Education: Instructor for P.E. courses, e.g. basic/intermediate rock climbing, backcountry cooking and caving.

EXPERIENCE
Student Researcher   **Aug. 2024 - Present**
Cornell University CS, Advisors: Dr. Anke Van Zuylen, and Dr. Matthew Eichhorn   *Ithaca, NY*
- Conducts research to improve time complexity of string parsing algorithm.
- Keywords: algorithms, optimization, linear algebra, string processing.

President, ACSU   **Dec. 2023 - Present**
Association of Computer Science Undergraduates, Cornell   *Ithaca, NY*
- Oversees all functions of the largest CS club at Cornell, with over 500 active members.
- Collaborates closely with Cornell faculty, the office of Diversity Equity Inclusion and Belonging, and CS corporate sponsors to strategize, plan, and execute college-wide events such as our annual Research Night, Faculty Luncheon, and student mentorship program. acsu.cornell.edu)

TA, CS4820: Analysis of Algorithms   **Aug. 2024 - Present**
Cornell University CS   *Ithaca, NY*
- Assists with creating and presenting recitations topics such as algorithm design, computability theory
- Holds office hours and grades homework and exams

Algorithms Researcher   **May 2024 - Aug. 2024**
Montana State University, Advisor: Dr. Brendan Mumey   *Bozeman, MT*
- Research Experience for Undergraduates (REU) program, funded by NSF Award No. 2243010
- Created integer linear program to construct phylogeneic trees of tumor samples.
- Implemented algorithm that finds most 'essential' phylogeneic relationships.
- Keywords: Algorithms, combinatorial optimization, integer linear programming, computational biology.

Head TA, CS2800: Discrete Structures   **Jan. 2023 - May 2024**
Cornell University CS   *Ithaca, NY*
- Created rubrics for homework and exams, then led team of 15 TAs through grading
- Taught weekly discussion course ($\sim$25 students) and held office hours
- Led review lectures, created supplemental material: robynburger.github.io/cs2800)

Backend Software Engineer   **May 2023 - September 2023**
Web Development Team, SC Johnson College of Business IT
- Spearheaded the modernization of legacy PHP code by implementing Ruby on Rails, JavaScript, HTML
- Navigated extensive codebases, identifying and resolving intricate bugs across multiple servers and programs, presented deliverables each week to the team.

Math Directed Reading Program   **Aug. 2023 - Dec. 2023**
Cornell University, Advisor: Eray Karabiyik
- Conducted collaborative study on elliptic curves and their application to cryptography.

GRANTS & AWARDS
- Recipient of Cornell CS 2024 "Most Impactful Student" award
- National Center for Women & Information Technology Travel Support Stipend ($2,500)
- Cornell Bowers CIS TAPIA scholarship ($1,500)