

Sierra Martinez-Kratz

sem2274@columbia.edu * (734) 274-3982 * 698 Old Forge Court, Chelsea, MI 48118

EDUCATION

- **Columbia University in the City of New York, NY, NY.** Anticipated graduation May, 2025. Major: Applied Mathematics with concentration in Computer Science. 3.7 GPA.

WORK EXPERIENCE

- **United Wholesale Mortgage:** 5/2024-8/2024. Automation Finance Intern. Planned, designed, built, tested, and monitored an automated financial reporting system, freeing nearly 500 hours in data processing and analysis and saving 20k annually.

ACTIVITIES

- **Columbia and Barnard Association for Women in Mathematics:** 9/2021-Present.
- **Community Impact at Columbia University:** 1/2023-Present. Volunteer for the organization America Reads & Counts. Tutoring at a local elementary school.

HONORS AND AWARDS

- **Hispanic Scholarship Fund Scholar:** National merit-based award for Hispanic/Latinx students, received in 2021, 2022, 2023, 2024. Youth Leadership Institute, Summer 2020.
- **Columbia University Dean's List:** Fall 2021, Spring 2022, Fall 2023, Spring 2024, and Fall 2024 semesters.

ACADEMIC EXPERIENCE & PROJECTS

Completed a semester-long project developing a movie recommendation system for Letterboxd, exploring three algorithms: SVD, NMF, and BPR. Evaluated the performance of the algorithms using metrics like Precision@k and NDCG. Created two Epidemiological Data Briefs in my Data Science and Health Equity course, developing research questions, conducting background research, and performing data analysis to present findings effectively. For more information on my relevant coursework and project details, please visit my website: <https://sierramk1.github.io/>

SKILLS & INTERESTS

Skills: Proficient in Java, Python, Microsoft Office Suite, SQL, R, GitHub, Alteryx. Experience with C, CSS, HTML. Interested in novel problem solving and navigating humanities and mathematics for solutions to complex situations.

- | | |
|---|--------------------------------------|
| ● Leadership | ● Flexibility |
| ● Planning, Organization & Time Management | ● Active listening |
| ● Adaptability | ● Effective communication |
| | ● Strategic critical thinking |

Interests: Community service, running, half-marathons, cooking, tennis, golf, sustainability.