Bridget I. Lin

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EDUCATION

Stanford University   *Expected entry September 2025*
PhD Biomedical Data Science

University of North Carolina at Chapel Hill   *Graduation May 2025*
Major**: Biostatistics,* ***Minors: *Computer Science, Mathematics;* **GPA**: 3.97/4.00
- **Coursework**: Multivariable Calculus, Real Analysis, Linear Algebra, Discrete Math, Differential Equations, Probability, Statistical Inference, Statistical Computing, Regression Analysis, Foundations of Programming, Data Structures & Analysis, Information Visualization, Molecular Biology & Genetics, Chemistry
- **Honors Thesis**: *Understanding the Epigenetic Risk of Adverse Post-traumatic Neuropsychiatric Sequelae through Interpretable Ultra-high Dimensional Data Analysis*

AWARDS/HONORS

Robert E. Bryan Fellowship, Phi Beta Kappa, Honors Carolina, Dean's List (all semesters), The President's Volunteer Service Award

EXPERIENCE

UNC Department of Computer Science | Teaching Assistant | Chapel Hill, NC   *Aug. 2022 – Present*
- Host one-on-one office hours and group tutoring sessions; grade exams and assignments and provide personalized feedback
- Collaborate with teaching assistants and Professors Alyssa Byrnes and Kris Jordan to introduce Python to 600+ students

UNC School of Medicine | Research Assistant | Chapel Hill, NC   *Aug. 2023 – Present*
- Collaborate with Dr. Xinming An on the AURORA study to improve the understanding, prevention, and recovery of military veterans and civilians who have experienced traumatic events
- Analyze multi-omics data using sure independence screening, LASSO regression, XGBoost, random forests, integrative clustering, and nested cross-validation
- Provide statistical support for clinical faculty members on research projects

Memorial Sloan Kettering Cancer Center | Research Fellow | New York, NY   *May 2024 – Aug. 2024*
- Participated in the Quantitative Sciences Undergraduate Research Experience (QSURE) program funded by the National Cancer Institute; presented findings at the QSURE research symposium
- Collaborated with Drs. Ronglai Shen and Mohammad Yosofvand to develop a deep-learning pipeline that provides end-to-end whole-slide multiplexed tissue image analysis including nuclei detection, cell segmentation, cell classification, and immuno-phenotyping

Carolina Housing | Office Assistant | Chapel Hill   *Dec. 2021 – May 2024*
- Efficiently managed community office; provide keys and enhancements for UNC residents
- Actively worked towards creating an inclusive, accessible, and comfortable living environment for all

UNC Water Institute | Research Intern | Chapel Hill, NC   *Jun. 2022 – Oct. 2022*
- Conducted a literature review under Dr. Valerie Bauza to investigate the presence and human health impact of toxic metals in drinking water in low- and middle- income countries

Carolina Survey Research Laboratory | **Research Assistant** | Chapel Hill, NC   *May 2022 – Aug. 2022*
- Collected and entered data for studies on improving Medicaid services in NC and oncology treatment equity
- Assisted with logistical tasks (e.g. mailings, patient and practitioner outreach)

PUBLICATIONS

1. Yosofvand M, Edmiston SN, Smithy JW, Peng X, Kostrzewa CE, **Lin BI**, Ehrich F, Reiner A, Miedema J, Moy AP, Orlow I, Postow MA, Panageas K, Seshan VE, Callahan MK, Thomas NE, Shen R (2024). Spatial immunophenotyping from whole-slide multiplexed tissue imaging using convolutional neural networks. Submitted for publication. Preprint available at bioRxiv: https://doi.org/10.1101/2024.08.16.608247.

2. Smetlz AM, Wickey AB, Belliston-Fowkes DJ, Tran LN, Smith EJ, An X, **Lin BI**, Teeter EG (2023). The relationship between computed tomography-derived left bronchial diameter and double lumen endotracheal tube size selection. *Journal of Cardiothoracic and Vascular Anesthesia,* 38, 1286–1287. *https://doi.org/10.1053/j.jvca.2024.02.015.*

3. Botea L, Lane J, An X, **Lin BI**, Baboolal HA (2024). Pediatric renal transplantation – Does anesthetic management affect graft function? Submitted for publication.

LEADERSHIP AND COMMUNITY INVOLVEMENT

American Mock World Health Organization (AMWHO) | Regional Vice Chair   *Sep. 2023 – Present*
- Lead the Eastern Mediterranean region (2023) and Southeast Asia and Western Pacific region (2024)
- Write conference background brief; organize and facilitate the annual AMWHO International Conference for high school, undergraduate, and graduate students
- Guide and support delegates in writing their working papers and passing resolutions for the conference

Pearl Hacks | Director of Nutrition   *Apr. 2024 – Present*
- Plan a 3-day hackathon to provide hands-on technological experience for 400+ female and gender non-conforming individuals with the goal of uplifting gender minorities in technology
- Curate a menu selection that accommodates a variety of dietary restrictions and coordinate catering

SPROUT Nutrition | Co-Founder, Chief Technology Officer   *Oct. 2023 – Present*
- Developed a public health initiative to promote nutrition education in the local community
- Collaborate with food pantries to make healthy eating accessible, especially for those facing food insecurity
- Awarded UNC's Robert E. Bryan Fellowship in the 2024 cohort

TABLE NC | Volunteer   *Aug. 2021 – Present*
- Organized school food drives; pack, sort, and deliver healthy food for children in Orange County, NC

Minority Health Conference | Planning Committee Member   *Oct. 2024 – Present*
- Plan for the largest and longest-running student-led health conference in the country
- Review and select posters, abstracts, and speakers for the conference to raise awareness around health disparities for underserved minority populations

Other organizations: App Team Carolina (former full stack iOS app developer), Biostatistics Student Association (Student Ambassador), Carolina Analytics and Data Science, Public Health 360 (former Creative Team Lead), Chinese Undergraduate Student Association

ADDITIONAL INFORMATION
- **Technical Skills:** Python, R, SAS, Java, C, Swift, SwiftUI, Git, Docker, Figma
- **Languages:** French (conversational), Mandarin (conversational)
- **Hobbies:** Tennis, swimming, pickleball, piano, cooking, painting, film photography