

# Edmund Wong

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## EDUCATION

**COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH**, New York, NY

August 2024-present

Master of Science, Biostatistics (Theory & Methods Track)

- Relevant Coursework: Advanced Statistical Computing, Longitudinal Data Analysis, Pharmaceutical Statistics, Statistical Inference Probability, Biostatistical Methods (I & II), Data Science

**EMORY UNIVERSITY**, Atlanta, GA

August 2021-May 2024

Bachelor of Science, Quantitative Sciences and Biology- summa cum laude

- Relevant Coursework: Machine Learning Theory, Causal Inference, Regression Analysis, Data Science Computing, Probability
  - Biology Coursework: Infectious Disease Modeling, Vaccines & Immunology, Cell Biology, Epidemiology, Designing Health Research
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**SKILLS**: R, SAS, Python, SQL, ArcGIS, JupyterLab, AWS, Flow Cytometry, Fusion 360, GraphPad Prism, MS Excel, GitHub

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## EXPERIENCE

**KYOWA KIRIN NORTH AMERICA**, Princeton, NJ

June 2025-August 2025

Biostatistician Intern

- Conducted research in treatments for rare bone diseases such as X-linked hypophosphatemia (XLH) in adult and pediatric patients, cultivating skills in clinical trial study design, Bayesian hierarchical models, statistical protocol, and therapeutic area knowledge.
- Analyzed primary and secondary endpoints in Phase II clinical trials to assess efficacy endpoints such as bone density and 6-minute walk test in pediatric and adult populations with XLH in accordance with statistical analysis plans and working instructions.
- Collaborated with clinical and data science teams to review statistical analysis plans (SAPs), working instructions (WIs), and data management protocols in clinical trials to ensure good programming practices in accordance with CDISC standards.
- Participated in global (NA and Japan) protocol and statistical methodology discussions to ensure accuracy in clinical data analyses.
- Supported the evaluation of CRO bid proposals, contributing to decision-making for clinical trial partnerships.

**INTERNATIONAL CENTER FOR AIDS PROGRAMS (ICAP)**, New York, NY

November 2024-May 2025

Graduate Student Data Engineer

- Developed, reviewed, and validated SAS data pipelines to generate datasets, tables, and figures for interactive websites supporting global HIV testing and surveillance projects, including UNAIDS 90-90-90 cascade metrics and Population-based HIV Impact Assessments (PHIA) in Africa and the Caribbean.
- Spearheaded investigative project to determine HIV testing rates and results among HIV negative populations in Africa from 2016 to 2023, with the goal of developing new testing recommendations for people at low risk for contracting HIV.

**EMORY UNIVERSITY DEPARTMENT OF BIOSTATISTICS**, Atlanta, GA (Remote)

May 2024-May 2025

Graduate Research Assistant

- Developed an R and SAS-based visualization tool leveraging nonparametric estimation to analyze clinical trial datasets.
- Conducted repeated measures analysis of DEXA imaging data using compound symmetry to evaluate the effect of dietary intervention on insulin sensitivity and disposition index in cystic fibrosis patients.
- Conducted correlation analyses between glucose potentiated arginine and insulin sensitivity to assess pancreatic beta-cell function.

**GAVEGNANO DRUG DISCOVERY PROGRAM**, Atlanta, GA

January 2022-August 2024

Clinical Trial Data Analyst

- Conducted research as part of a drug repurposing initiative focused on treating inflammatory symptoms in COVID-19 and HIV patients, with key findings including identifying baricitinib, a novel Jak 1/2 small molecule, as a treatment for COVID-19.
- Designed sub-study analysis of a Phase 2a clinical trial with baricitinib, testing the treatment of HIV neuroretinal disorder in patients.
- Analyzed Phase II clinical trial data, identifying key biomarkers for tracking HIV in patients. Results informed future drug repurposing clinical trials on biomarker selection.
- Maintained compliance with BSL2+ lab protocols and mentored junior researchers in clinical data analysis and lab protocols.

**BREAK EMORY**, Atlanta, GA

January 2022-June 2024

Vice President

- Breakdancing club focused on connecting Atlanta's breaking community with Emory students. Increased membership by >3X.
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## PROJECTS

**STATISTICAL ANALYSIS PLAN FOR BLINGIII TRIAL**, New York, NY

April 2025-May 2025

- Led the writing of a Statistical Analysis Plan (SAP) for a multicenter phase 3 trial evaluating continuous vs. intermittent  $\beta$ -lactam infusion in critically ill sepsis patients. SAP included methods for analyzing efficacy outcomes using logistic regression, Cox-proportional hazards models, and subgroup analyses. Included protocols for missing data handling, interim analysis using Haybittle-Peto boundaries, multiplicity adjustment, and site-level clustering.