

# David Nemirovsky

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## Education

**Columbia University Mailman School of Public Health**, New York, NY

Expected May 2022

**Master of Science in Biostatistics** GPA: 3.70

Relevant Coursework: Biostatistics I & II (GLM & Longitudinal Data Analysis), Data Science I & II (Machine Learning Algorithms), Clinical Trial Methodology, Survival Analysis, Latent Variables and Structural Equation Modeling, Statistical Inference (Classical & Bayesian Estimation)

Involvement: Biostatistics Computing Club, Healthcare Data Analytics Club

Honors: FORWARD (Fighting Oppression, Racism & White Supremacy Through Action, Research & Discourse) Community Fellowship Award

**Hunter College**, New York, NY

May 2019

**Bachelor of Arts in Statistics, Bachelor of Arts in Biochemistry** GPA: 3.71 (Statistics GPA: 3.97)

Honors: Departmental Honors in Biochemistry, Yalow Honors Scholar, Dean's List, Shirley Kurmin Mazur Award in Mathematics

## Work Experience

**Columbia University Mailman School, Department of Population and Family Health**, New York, NY

June 2021 – Present

**Quantitative Research Assistant**

- Develop statistical models to examine significance of multiracial identification across 8 health outcomes and 4 covariates using R
- Construct dozens of exploratory plots and tables to visualize differences among multiracial groups using `ggplot` and `Shiny` packages in R
- Generate accessible reports of statistical findings for discussions with team and principal investigator using RMarkdown
- Tidy dataset containing over 3000 survey participants and 175 variables into workable dataset using R

**Columbia University Irving Medical Center, Department of Neurology**, New York, NY

June 2021 – Present

**Research Fellow**

- Analyze dataset of 75 underserved 5th grade students to evaluate social and emotional learning (SEL) interventions using R
- Establish novel data infrastructure for efficient assessment of intervention efficacy during implementation of SEL modules using SQL
- Finalize study design and compose IRB protocol for pilot clinical trial with vulnerable population
- Conduct in-depth research review on hundreds of SEL measurement scales to be optimally used in gauging mental health improvement

**Hunter College, Department of Chemistry**, New York, NY

January 2020 – Present

**Adjunct Lecturer for General Chemistry Lab and Inquiries into the Nature of Matter**

- Instruct 60+ undergraduate students on proper lab techniques, safety protocol, and fundamental concepts of chemistry within experiments
- Assign grades based on performance in laboratory and lab reports, as well as host weekly office hours to provide additional instruction

**Private Tutor**, New York, NY

August 2019 – Present

**Subjects: SAT Math, Algebra, Trigonometry, Calculus, Statistics, Biology, Chemistry (All Middle School – College Level)**

- Prepare lesson plans tailored to needs of specific students and engage them using applicable examples and vernacular
- Assist with assigned homework and projects, with recent clients receiving high marks on the math section of the SAT and As in Calculus

**Watch Limit**, New York, NY

November 2019 – June 2021

**Operations Manager**

- Examined monthly sales data to discover trends and set inventory prices based on current market value using R
- Input and managed business inventory between \$1-2 million via MS Excel
- Oversaw and updated website on rolling basis to accurately reflect market changes

## Academic Projects

**“Predicting Heart Disease Using Diagnostic Tests,”** Columbia University

Fall 2021

- Worked individually to create logistic regression model predicting heart disease in patients from U.S. and European hospitals.

**“Predicting Survival on the Sinking R.M.S. Titanic,”** Columbia University

Spring 2021

- Worked in team of two to train and test machine learning models to predict passenger survival on the infamous sinking cruise ship, *Titanic*.

**“Predicting the Outcome of the 2021 NCAA DI Men's Basketball Tournament,”** Columbia University

Spring 2021

- Worked individually to train machine learning models to predict the winner of the 2021 Men's DI College Basketball Championship.

**“Future of COVID-19: Looking at Past Pandemics,”** Columbia University

Fall 2020

- Worked in team of four to develop website with interactive plots and maps with up-to-date data, comparing COVID-19 cumulative case and death data to that of past pandemics and seasonal flu.

**“Linear Model to Explain Hate Crimes in the U.S. in 2016,”** Columbia University

Fall 2020

- Worked in team of five to construct linear models and study covariates associated with hate crimes in the U.S. in 2016.

## Skills

**Language:** Intermediate Russian

**Software:** R, Python, SAS, SQL, SPSS, Access, Excel, PowerPoint, and Word (All advanced usage)