

David Nemirovsky

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Education

Columbia University Mailman School of Public Health (MSPH), New York, NY

Expected May 2022

Master of Science in Biostatistics GPA: 3.67

Relevant Coursework: Biostatistics I & II, Data Science I & II, Clinical Trial Methodology, Survival Analysis, Latent Variables and Structural Equation Modeling, Probability, Statistical Inference, Epidemiology

Involvement: Biostatistics Computing Club, Healthcare Data Analytics

Honors: FORWARD Community Practicum 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 MSPH, 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 intelligible reports of statistical findings for discussions with team and principal investigator using RMarkdown
- Tidy dataset containing over 3000 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 for Hip-Hop Public Health

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

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 students on proper laboratory techniques and safety protocol
- Educate 60+ undergraduate students in underlying fundamental concepts of chemistry present in lab experiments
- Assign students grades based on performance in laboratory and on lab reports
- Host office hours once per week 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
- Recent clients received high marks on the math section of the SAT and As in Calculus

Watch Limit, New York, NY

November 2019 – June 2021

Operations Manager

- Examine monthly sales data to discover trends and set inventory prices based on current market value using R
- Input and manage business inventory between 1-2 million dollars via MS Excel
- Oversee and update website on rolling basis to accurately reflect market changes

Academic Projects

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

Spring 2021

- Worked in group 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 group 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 group 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, SAS, SQL, SPSS, Access, and Excel (All advanced usage)