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, Latent Variables and SEM, Probability, Statistical Inference
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/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

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 an A 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, SPSS, Excel, PowerPoint, Word, WinLab32 for ICP-OES, and AccountEdge (All advanced usage)