David Nemirovsky

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Education

Columbia University Mailman School of Public Health, New York, NY May 2022
Master of Science in Biostatistics GPA: 3.71
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

Memorial Sloan Kettering Cancer Center, Department of Epidemiology & Biostatistics, New York, NY May 2022 – Present
Assistant Research Biostatistician

Columbia University Mailman School, Department of Population and Family Health, New York, NY June 2021 – May 2022
Quantitative Research Assistant

- Developed statistical models to examine significance of multiracial identification across 8 health outcomes and 4 covariates using R
- Constructed dozens of exploratory plots and tables to visualize differences among multiracial groups using `ggplot` and `Shiny` packages
- Generated accessible reports of statistical findings for discussions with team and principal investigator using RMarkdown
- Tidied 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 – May 2022
Research Fellow

- Analyzed dataset of 75 underserved 5th grade students to evaluate social and emotional learning (SEL) interventions using R
- Established novel data infrastructure for efficient assessment of intervention efficacy during implementation of SEL modules using SQL
- Finalized study design and compose IRB protocol for pilot clinical trial with vulnerable population
- Conducted 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 – May 2022
Adjunct Lecturer for General Chemistry Lab and Inquiries into the Nature of Matter

- Instructed 60+ undergraduate students on proper lab techniques, safety protocol, and fundamental concepts of chemistry in experiments
- Assigned 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 – May 2022
Subjects: SAT Math, Algebra, Trigonometry, Calculus, Statistics, Biology, Chemistry (All Middle School – College Level)

- Prepared lesson plans tailored to needs of specific students and engage them using applicable examples and vernacular
- Assisted 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

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 live data, comparing COVID-19 cases to past pandemics.
"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)