

Cesar Rene Pabon Bernal

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<https://github.com/cesarpbn1/PROJECTS>

Experience

Deerfield Management Company – Fellowship

New York, NY

Healthcare Finance Analyst Internship

June 2020 – August 2020

- Produced detailed financial and market share models for 3 pharmaceutical companies ranging from \$150 million to \$1.5 billion market cap with distinctive business proposals: launch of a product, evaluation of a new MOA in domestic/international markets, device technology
- Formulated detailed product development timelines by analyzing the expected life of a drug, clinical trial reports, scientific publications, patent certifications, exclusivity, and bio-equivalence
- Created, maintained, and updated weekly-3quarterly-yearly prescription high/low forecast models to identify gross/net discounts and net revenues
- Organized doctor calls and analyzed patient surveys to help identify sensitivity factors, important drivers, peak share and the possible existence of an unmet need
- Utilized data analytics to explore and create methods for quantifying qualitative problems (e.g. COVID pandemic) for short/long term investments

Hunter College (CUNY) – Mathematics & Statistics; Chemistry Departments

New York, NY

Adjunct Lecturer

August 2019 – July 2020

- Taught courses: sampling for polling and surveys, elementary probability and statistics, finite mathematics, and general chemistry laboratory
- Initiated the organization and coordination of over 30 sections in the Mathematics and Statistics department; including creation of streamlined data projects and appropriate curriculum
- Created presentations, exams and quizzes for corresponding courses

Statistical Consultant

August 2019 – May 2020

- Analyzed correlation and predictive modeling of math placement test scores for incoming students

Hunter College (CUNY) – Computational Chemistry; Nanotech & Materials Science

New York, NY

Graduate Researcher

June 2019 – March 2020

- Orchestrated research focused on computational analysis of carbohydrates
- Programmed predictions using Python/R by analyzing scripted simulations of conformational changes in sugars

Research Assistant

October 2011 – December 2015

- Co-authored research focused on the synthesis and analysis of energy donor/acceptor molecular-nanoscale frameworks with an emphasis on graphene-oxide systems, photonic devices and small molecule bulk heterojunction solar cells.
- Scientific Publications: doi: 10.1021/ic401563f, doi:10.1039/C2TA00415A, doi: 10.1039/C2CC31340E

CRPB LLC – Catering Staffing agency

New York, NY

Co-founder

August 2015 – April 2019

- Operated a virtual food catering staffing agency servicing over 35 clients across the New York Metropolitan area with a roster of more than 40 employees (chefs, line cooks, captains, waiters, and bartenders)
- Spearheaded customer relationships, staff training, and marketing—clientele volume increased at least 25% per year

Education

Hunter College (CUNY)

New York, NY

M.A. in Statistics

Received January 2020

B.A. in Applied Mathematics & Statistics

Received January 2019

B.A. in Chemistry

Received January 2011

- Graduate Statistics Major GPA 3.95/4.0, Applied Mathematics Major GPA 4.0/4.0
- Departmental scholarships, Dean's List in multiple semesters, ACS Certification
- ACM Member, Flavor Extract Manufacturers Association (FEMA) Scholar, NY Excel Scholar (Skidmore College)

Skills and Interests

- Programming Skills: Excel, Python, R, SPSS, Matlab
- CFA level 1 candidate (Feb 2021)
- Languages: English (*fluent*), Spanish (*fluent*), Italian (*Conversational*)
- Certifications: Data Science Intensive (Mar 2018); Machine Learning (Dec 2018); Intro to SQL (Aug 2019), Wall Street Global Institute Immersion Program-financial modeling and valuation (Sep 2020)
- Interests include skiing, tennis, basketball, surfing, NYC sports teams