

Gilad Moskowitz

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EDUCATION

SDSU, San Diego, CA

2019 – present

Applied Mathematics, concentration Communication Systems M.S.

UCLA, Los Angeles, CA

Graduated: June 2017

Mathematics B.S. and Chemistry B.S.

SUCCESSFUL PROJECTS

- Information Theory and the Stock Market
 - Analyzed literature about using information theory to profit from the stock market and presented on the findings
- Dynamic Algorithms in Numerical Semigroups
 - Coded several new and existing algorithms for properties of numerical semigroups and compared their runtimes

CURRENT RESEARCH

- The structure theorem for sets of length of numerical semigroups, with Professor Chris O'Neill
 - Wrote several algorithms using Python and Sage to examine properties of numerical semigroups
 - Based on computational findings, developed a series of general proofs for certain properties of numerical semigroups
- Machine learning to determine if the Mobius function is solvable in polynomial time, with Professor Huan Qin
 - Wrote Python programs to generate the data set, create and train the NN model, and test the accuracy of the model

WORK EXPERIENCE

San Diego State University, San Diego, CA

August 2019 – Present

Graduate Teaching Assistant:

- Teaching Calculus II to college students via lecturing during small sections and office hours

Canyon Crest Academy, San Diego, CA

April 2019 – June 2019

Long Term Substitute Teacher:

- Teaching high-school mathematics with all the responsibilities of a tenured teacher

HSL Ventures, Los Angeles, CA

Sept 2016 – June 2018

Market Analyst and Expansion Consultant:

- Used functions of Excel spreadsheets (e.g. vlookups, macros, pivot tables) to aggregate and analyze data, including the viability and profit of potential purchases, then generated visualizations and presented analysis to senior management, leading to multiple profitable purchases, some with 40% ROI
- Analyzed the merit of new marketplaces, facilitated expansion onto the profitable marketplaces, and evaluated and selected useful tools for the continued growth and expansion of the company
- Managed and maintained the accounts and storefronts of the company on the various marketplaces, and managed customer relations on all new marketplaces
- Worked with senior management to find new selling categories and established relationships with new vendors, e.g. established a relationship with Hasbro that allowed the company to enter the toy market
- Used Trello to facilitate a Kanban work environment and upheld project timelines to ensure product turnover

Crinetics Pharmaceuticals, Inc., San Diego, CA

Oct 2013 – Aug 2015

Research Assistant:

Business Development Support:

- Assisted the CEO in market research, capitalizations, documentation, and organization of pharmaceutical sales
- Examined the various strategies used for sales and growth by the largest pharmaceutical companies and presented the findings, (e.g. which companies focused on generics, which relied on old patents, which bought smaller startups to boost their pipeline, etc.) to senior management

Scientific Research:

- Used molecular biology techniques to help with several of the company projects, and developed my own project which generated a series of biosensors designed to report receptor structural changes upon binding to ligands and used them to develop a FRET based assay
- Routinely presented progress and results in company meetings attended by senior members

OTHER SKILLS

- **Computer Languages/Tools:** Python, C++, SageMath, Git, Tableau, Microsoft Office suite (Excel, Word, etc.)