Alexander G. Costa

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WORK EXPERIENCE

University of Illinois Economics Department   **Champaign, IL**
Research & Data Science Assistant   August 2021 – Present
- Assist in data science project which involved the creation of an online R "bookdown" that documents over 5 data modelling techniques in HTML format for quantitative research purposes
- Produce data analysis using A/B tests and regressions to find causal effects and trends in data sets

University of Illinois Rare Books and Manuscripts Library   **Champaign, IL**
Public Services Intern   May 2021 – Present
- Ensure timely movement of over 1000 books and completed corresponding updates in the online database and Excel spreadsheets at one of the largest rare-books libraries in the country
- Provide client-facing service to over 100 clients through fulfilling book and inquiry requests

PepsiCo Design Center   **Chicago, IL**
Design Coordinator Intern   July 2017 – May 2018
- Managed the timely booking of monthly travel, arrangement of daily meetings, completion of over 20 monthly reports, and filing/archival of invoices for over 15 ongoing design projects
- Supported 15 office employees and 2 departments with excellent communication skills through coordinating with the design VP and assisting in over 5 timely project rollouts and completions

EDUCATION

University of Illinois at Urbana-Champaign
BS Econometrics and Quantitative Economics   Anticipated Graduation Date: May 2022
BA Urban Studies and Planning: *Policy and Planning*   Cumulative GPA: 3.93/4.00
- Part of the James Scholar Honors Program and Dean's List for academic performance recognition

SELECT PROJECTS

Data Science Research: Synthetic Control Research Replication   December 2021
- Replicated an academic paper using R Studio and existing data that employed the synthetic control method to determine causal effect of public policy on cigarette consumption in California

Data Tools: GPA Visualization App   December 2021
- Created an app in RStudio using the "Shiny" package that pulled GPA data related to select academic courses and allowed user interaction with the app to filter which data to display in graphs

Data Analysis and Visualization: COVID-19 Hotspot Mapping   December 2020
- Used public health data to conduct spatial quantitative data analysis and visualization on COVID-19 hotspots in Chicago and created a completed report with interactive HTML maps in R Studio

LEADERSHIP AND ACTIVITIES

Association for Quantitative Trading Education, VP Internal   January 2021 – May 2021
- Collaborate and provide resources to over 30 club members pertaining to quantitative finance and its intersection with statistics, programming, and quantitative financial modelling

ADDITIONAL SKILLS

- Microsoft Office Suite: Word (Expert), PowerPoint (Expert), Excel (Proficient)
- Programming Language Skills: R (Proficient), SQL (Novice), Python (Novice)
- Data Visualization Skills: ArcGIS (Proficient), Power BI (Proficient), R ggplot (Proficient)
- Adobe Suite Skills: InDesign (Novice), Photoshop (Novice), Illustrator (Novice)