

# CHRISTOPHER DENQ

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## SUMMARY

**Data scientist** with **1.5+ years** of experience in **data analytics**, metrics, aggregates, and data training. Comfortable with data pipelines, infrastructure, and both structured/unstructured data storage. Experienced in applying data-driven approaches to solve ambiguous business problems. **Unique holistic background in art specialty and business analytics translates into a highly driven and adaptive mentality.** Possesses deep aesthetic appreciation for and strong obsessive desire to find the most coherent data-narratives possible.

## TECHNICAL AND VISUALIZATION SKILLS

- Python, Web APIs
- PostgreSQL, mongoDB, SQLite
- Machine Learning (supervised, unsupervised)
- HTML, CSS, JavaScript, Bootstrap, Flask, SQLAlchemy
- R Programming, Statistics, Modeling, Forecasting
- Excel, VBA, Google Sheets, Google Apps Script

## PROJECTS

**Streaming Service Data Comparison** | [github.com/cdenq/project-streaming-service](https://github.com/cdenq/project-streaming-service) Nov '21  
EDA on 9 Kaggle datasets (30,000 data points) to discover unlearned trends in offering packages between Netflix, Hulu, and Disney+; created 36 visualizations, 1 written report, and 1 Google Slides with team; presented to instructors / administrators from Penn Engineering and Penn LPS  
- Python: Pandas, Matplotlib • Excel • Google Slides, Google Docs

## EDUCATION

**University of Pennsylvania | Philadelphia, PA**  
*Certificate in Data Analytics and Visualization* Sep '21 – Mar '22  
Program GPA: 4.0

**University of Pennsylvania | Philadelphia, PA**  
*B.A, Double Major in Philosophy and History of Art* Aug '15 – May '21  
*Minor in Consumer Psychology (Marketing) from Wharton*  
Major GPA: 3.7 | Cumulative GPA: 3.3

## SELF-GUIDED LEARNING

**Harvard University | Online, edX**  
Data Analysis for Life Sciences Nov '21 – Feb '22  
- Statistics and R  
- Introduction to Learn Models and Matrix Algebra  
- High-Dimensional Data Analysis  
- Statistical Inference and Modeling for High-Throughput Experiments

## WORK EXPERIENCE

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### California State University: Northridge | Northridge, CA

*Machine Learning Research Intern*

Nov '21 – Present

- Currently working directly with Dr. Wenchin Hsu, professor of computer science at CSUN
- Researching graduate-level machine learning material, creating 4+ class powerpoints, writing 10+ Python examples to demonstrate ML concepts, assisting in general class material preparation, proofreading, documentation
- Winter internship expected to complete around late Dec '21 / early Jan '22; open to spring opportunities

### Kings Court English College House, University of Pennsylvania | Philadelphia, PA

*Chair of Manager Board*

Aug '17 – May '21

- Manages team of 11 other managers, leads weekly meetings, liaisons for 3 student staff groups
- Leads 14-16 annual house initiatives, 12 study break events for 450+ students, 5 residential programs
- **Succeeded** in 32% increased student attendance (34.0 from 25.6), 24% increased event quality ratings (4.1 from 3.3), 3 new event traditions, 2 new in-house management strategies

### Christie's Auctions and Private Sales | New York City, NY

*Art Auction House Intern*

Jun '20 – Aug '20

- Trained, operated in 3+ departments, staffed to real client and artwork engagements as intern
- Contributed academic/market research to 6 quarterly catalogue entries, 4 digital tours to 120 clients
- **Succeeded** in helping Christie's adjust to accelerated digital marketplace and understanding of role as auction house during pandemic

### Kings Court English College House, University of Pennsylvania | Philadelphia, PA

*Executive Business Operations Manager*

Sep '17 – Mar '20

- Managed 9 student staff and 1 Associate Manager, including scheduling, training, and payroll
- Maintained in-house lounge: hosts 5 semesterly arts & crafts/relaxation/enviro-conscious programs
- Maintained in-house retail: manages \$5000 bi-monthly budget, advertisement, and P&L responsibility
- **Succeeded** in grant proposal, piloting, and maintaining store presence over 3 years, 710+ transactions per semester, 60+ unique clients serviced per semester

### Fulphil | Philadelphia, PA

*Non-Profit Startup: Business Administration and Development Intern*

Jun '19 – Aug '19

- Operated in 4 of startup's departments: Marketing, Social Outreach, Development, Finance
- Helped develop and manage company's business models, budget, and educational programs
- Engaged 12 high school entrepreneurs for Fulphil's Social Impact Business Kickstarter program
- **Succeeded** in contributing to Fulphil's start-up efforts: increasing company sustainability, securing non-profit funding, capitalizing company reach, developing empowerment and educational program

### Philadelphia Museum of Art | Philadelphia, PA

*Museum Researcher Assistant, Acquisitions Department*

Jan '19 – May '19

- Worked directly with Dr. Darielle Mason, Stella Kramrisch Curator of Indian and Himalayan Art
- Participated in Asia Week @ New York, 7 different auctions and galleries
- **Succeeded** in academically contributing to 2 PMA exhibitions, provided baseline editing, review, and curatorship for 8 acquisition considerations

### McKinsey & Company | New York City, NY

*Business Analyst Intern*

Jun '18 – Aug '18

- Trained, operated in 4-person team; staffed to real client engagement as an intern
- Analyzed 12+ databases, assisted in building 4+ iterations of financial models, created 3 drafts and final risk assessment reports, completed 2 presentations to team and client
- **Succeeded** in learning about client's situation and conducting relevant research, providing deliverables to client with team, sanitizing and adding new insights to internal PD documentation