

# CHRISTOPHER DENQ

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## SUMMARY

Early data scientist with **2.5 years professional** in data analytics, machine learning, and database engineering. Industry background in art market, math, and applied AI tools demonstrate mindset for **data-driven insights**, **novel solution building** and **customer sense**.

## EDUCATION

**University of Pennsylvania** | Philadelphia, PA

BA, Philosophy and Art History

May 2021

**University of Illinois – Springfield** | Springfield, IL

BA, Mathematics, minor in Political Science

Expected May 2025

- **Courses:** Linear Algebra, Mathematical Statistics, Probability, Statistical Methods, MV Calc, Discrete Math., Dif EQs

## DATA EXPERIENCE

**Data Science Apprentice**

(3 mos) Mar 2023 – May 2023

Adobe Digital Academy | Remote

- Selected scholarship finalist for Adobe x General Assembly's Data Science Immersive program
- Fast-tracked interview for data science internship with Adobe

**Data Analyst Intern**

(3 mos) Jun 2022 – Aug 2022

PNC Financial Services Group | Brecksville, OH

- Created 8 data products (Python/SQL scripts, Tableau dashboards) to help manage business capacity, performance, and risk
- Successfully saved \$375,000 via data-driven sight on loan pipeline involving 7 departments, 8+ managers, 100k data points

**Data Analytics Assistant Instructor & Tutor**

(1 yr 3 mos) Sep 2021 – Nov 2022

2U – Trilogy Education Services & Wyzant.com | Atlanta, GA & Remote

- Managed and taught data analytics curriculum; teaching and tutoring over 300+ hours to 65 students
- Successfully performs code reviews, provides feedback on projects, and teaches CS concepts

**Data Analyst Fellow**

(7 mos) Sep 2021 – Mar 2022

2U – Trilogy Education Services | Atlanta, GA

- Worked on 4 data projects (EDA Python analysis, SQL ETL database, full-stack market dashboard, full-stack ML classifier)

**Art Analyst Intern**

(3 mos) Jun 2020 – Aug 2020

Christie's Auctions & Private Sales | New York, NY

- Evaluated 12 artworks at leading luxury art auction house; attended 3+ onsite auctions, hilling meetings
- Succeeded in 3 sales of collections (net value \$19.5M) and contributing to establishing TAMs category (AI art, NFTs)

## AI EXPERIENCE

**Cambridge Machine Learning Fellow**

(1 mo) Jan 2023

Cambridge AI Safety Hub's CaMLAB, Cambridge University | Cambridge, England

PI: Hannah Erlebach

- Researched transformer interpretability, model training, and hyperparameter tuning
- Projects include building a raytracer, custom ResNet, simple backpropagation framework, custom BERT, and scaled GPT

**CSUN Machine Learning Student Assistant**

(7 mos) Nov 2021 – May 2022

AI-x Group, California State University: Northridge | Northridge, CA

PI: Prof. Wenchin Hsu

- Researched ML pedagogies and curriculum development for Prof Hsu's Spring 2023 graduate ML course
- Succeeded in delivering 280+ slides, 10+ Java-to-Python code conversion, and applying linear algebra to research

**UF Bioinformatics Researcher**

(1 yr, 4 mos) Jun 2012 – Sep 2013

Systems Biology Laboratory, University of Florida | Gainesville, FL

PI: Prof. Su-Shing Chen

- Researched optimal parameter space for SVM techniques to detect influential biomarkers for Alzheimer's
- Co-authored research [paper](#); published in Journal of Clinical Bioinformatics

## SKILLS & FLUENCIES

- **Coding Languages:** Python (OOP), C/C++, SQL (PostgreSQL), NoSQL (MongoDB), HTML/CSS/JS, APIs, Git
- **Machine Learning:** SKLearn, Keras, TensorFlow, PyTorch, Numpy, Scipy
- **Cloud & DevOps:** Google GCP, Google Collab, Hadoop/Spark, Docker, Github Pages, AWS
- **Analytics/Visualization:** Tableau, Google Sheets/Apps Script, Google Suite, Excel/VBA, Matplotlib, Seaborn

## HOBBIES

Competitive Escape Rooms ("Ranked Runs") • Resource-Management Boardgames • Tabletop Roleplaying Games