CHRISTOPHER DENQ

Fairfax, VA 22031 • (818) 671-8222 • christopherdenq@gmail.com
cdenq.github.io • github.com/cdenq • linkedin.com/in/christopherdenq

SUMMARY

Early-career **data scientist** seeking to transfer passion and drive into building **AI governance** solutions. **Technical industry experience** in analytics and machine learning augments empirical methodologies for policy research; unique undergraduate background in **philosophy and art history** provides strong foundations for epistemics. Self-taught transition from the art market to data science demonstrates resiliency, resourcefulness, initiative, and commitment to long-term projects.

EDUCATION

University of Pennsylvania | Philadelphia, PA
BA, Philosophy and Art History   Jan 2017 – May 2021
Candidate in BS, Economics, concentration in Statistics (Wharton)   *Aug 2015 – Jan 2017*
- **Honors**: John C. Parker Fellowship Grant, 2016 ($500 for statistical game theory research in board game scenarios)

University of Illinois – Springfield | Springfield, IL
BA, Mathematical Sciences, minor in Legal Studies   Jan 2023 – Present
- **Note:** Taking courses part-time to gain rigorous mathematical understanding of AI models
- **Courses:** Linear Algebra, Mathematical Statistics, Probability, Statistical Methods, MV Calc, Discrete Math., Dif EQs

Stanford University | Stanford, CA
Non-Degree   Sep 2022 – Dec 2022
- **Courses**: Introduction to AI Alignment (AGI Safety Fundamentals equivalent)

SKILLS & FLUENCIES

- **Spoken Languages**:   Mandarin Chinese (Fluent), Taiwanese Hokkein (Native), Spanish (Elementary)
- **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

AI RESEARCH & FELLOWSHIPS

Incoming Stanford AI Governance Fellow   (3 mos) Incoming Feb 2023 – Apr 2023
Stanford AI Alignment's SPAR, Stanford University | Stanford, CA   PI: TBA, Contact: Gabe Mukobi
- Incoming research intern with Stanford AI Alignment's SPAR program in Spring
- Project TBA; aim to conduct technical and policy AI research for benchmarking policies and output research paper

Cambridge Machine Learning Fellow   (1.5 week) Jan 2022
Cambridge AI Safety Hub's MLAB, Cambridge University | Cambridge, England   Contact: Hannah Erlebach
- Gained technical experience with transformer interpretability, model training, and hyperparameter tuning
- Projects include building a raytracer, custom ResNet, simple backpropagation framework, custom BERT, and scaled GPT

Berkeley AI Governance Research Intern   (3 mos) Dec 2022 – Feb 2023
EA@Berkeley Group's GFI, UC Berkeley | Berkeley, CA   Advisor: Mauricio Baker, Contact: Aris Richardson
- Researching potential AI policy framework from existing auditing precedents in hardware, software, and robotics
- Project includes a 15-page report and EA Forum post for Mauricio (OpenAI contractor) and Aris (Berkeley)

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 education 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 technical research paper; published in Journal of Clinical Bioinformatics

AI-SAFETY ACTIVITIES & CONFERNECES

Dartmouth AI Safety Club Logistics Volunteer   *(2 mos)* Dec 2022 – Present
AI Safety x Dartmouth, Dartmouth College | Dartmouth, NH   Contact: Mark Lovett
- Performs logistics for new AI-Safety-specific club at Dartmouth (summer launch); club currently pre-faculty-mentor
- Provides feedback to executive board on how to increase traffic and retention from remote participants

Conferences
- **EAG London 2023:** accepted attendee   May 2023
- **EAG Bay Area 2023:** accepted attendee   Feb 2023
- **AI Alignment Retreat 2022 (AIR):** sponsored attendee (13% admittance)   Dec 2022
- **EAGx Berkeley 2022:** sponsored attendee   Dec 2022

INDUSTRY EXPERIENCE

Data Scientist Apprentice   (4 mos) Mar 2023 – Jun 2023
Adobe & General Assembly | Remote
- Received scholarship from Adobe to General Assembly's Data Science Apprenticeship Program
- Fast-tracked to data science position with Adobe after apprenticeship

Data Analyst Intern   (3 mos) Jun 2022 – Aug 2022
PNC Financial Services Group | Brecksville, OH
- Delivered 8 data products used by 90+ members across 7 departments to monitor team performance and internal loan pipeline
- Succeeded in saving $375,000 in new hiring costs by addressing existing inefficiencies in team hand-offs

Data Analytics Assistant Instructor   (6 mos) May 2022 – Nov 2022
2U – Trilogy Education Services | Atlanta, GA
- Managed and taught data analytics curriculums with instructor team; teaching and tutoring over 210+ hours to 35 students
- Successfully performs code reviews, provides feedback on projects, and teaches CS concepts

Freelance Computer Science Tutor   (9 mos) Sep 2021 – May 2022
Wyzant.com | Online
- Tutored 25+ students from high school to adult learners for 65+ hours; topics range from AP Computer Science to Intro. ML
- Succeeded in adapting teaching style, clearly communicating abstract computer science concepts, and mentoring students

Career Transition (Break)   (1 yr 1 mo) Aug 2020 – Sep 2021
- Self-taught computer science and data analytics while finishing UPenn degree

Leading Art Auction House Intern   (3 mos) Jun 2020 – Aug 2020
Christie's Auctions & Private Sales | New York, NY
- Evaluated 12 artworks over 6+ reports and collection documentation; 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)

Art Market Internships   (3 yrs 3 mos) Jan 2017 – Mar 2020
Various Art Institutions | New York, NY & Philadelphia, PA
- <u>Kapp Kapp Gallery</u>: Spring Gallery Intern
- <u>Philadelphia Museum of Art</u>: Spring Acquisitions Intern
- <u>Penn Museum of Arch. and Anthro.</u>: Summer Curator Intern
- <u>Arthur Ross Gallery</u>: Part-time Docent

Non-Profit Founder and Executive Business Operations Manager   (3 yrs, 7 mos) Sep 2016 – Mar 2020
Oasis Commissary @ University of Pennsylvania | Philadelphia, PA
- Started non-profit to address local community issue in dorm
- Wrote grant proposal to Dean, obtained vendor license from city, and upon successful pilot, was absorbed by Penn
- Managed 21 staff, 2 managers, $2000 bi-monthly budget, 6 marketing campaigns
- Succeeded in business development and serving college dorm; $1300 gross, 22k purchases, 180 unique clients

HOBBIES

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