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   May 2021

University of Illinois – Springfield | Springfield, IL
Non-Degree, Mathematics   Present
- **Note:** Taking part-time upper-level courses to gain mathematical intuition of AI and augment AI Governance impact
- **Courses**: Linear Algebra, Differential Equations, Statistics, Probability, Statistical Inference

Stanford University | Stanford, CA
Non-Degree   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-SAFETY ACTIVITIES & CONFERNECES

Dartmouth AI Safety Club Officer   *(4 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 (fall launch); club currently pre-faculty-mentor
- Provides feedback to executive board on how to increase traffic and retention from remote participants

Research Presentations
- **Stanford AI Alignment (SAIA) Research Symposium 2023:** accepted presenter   Mar 2023
- **Berkeley Good Futures Initiative (GFI) Research Symposium 2023:** accepted presenter   Jan 2023

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

AI RESEARCH & FELLOWSHIPS

EU AI Act – AI Technical Standards Contributor   (5 mos) Mar 2023 – Jul 2023
AI Safety Camp 8 (AISC) | Remote   PI: Dr. Koen Holtman
- Supervised by Dr. Koen Holtman, Dutch rep. on Europa technical standards committee (EU CEN-CENELEC JTC21)
- Assisted with developing shovel-ready technical policies for EU AI Act's standardization requests
- Developed minimally acceptable best practices for AI risk management at government level

Stanford AI Governance Researcher   (3 mos) Jan 2023 – Mar 2023
Stanford AI Alignment's SPAR, Stanford University | Stanford, CA   PI: Robi Rahman
- Analyzed historical AI metrics (parameter, compute, dataset) across 31 countries to verify regional forecasting trends and inform governance strategies; published report in Stanford AI-Index

Berkeley AI Audit Research Intern (2 mos) Dec 2022 – Jan 2023
EA@Berkeley Group's [GFI](), UC Berkeley | Berkeley, CA   Contact: Aris Richardson
- Performed literature review of auditing policies across 6 industries (hardware, software, robotics, cybersecurity, pharmaceutical, and financial) with goal of establishing precedents for AI-specific auditing frameworks

Cambridge Machine Learning Fellow (1 mo) Jan 2022
Cambridge AI Safety Hub's [CaMLAB](), Cambridge University | Cambridge, England   Contact: Hannah Erlebach
- Worked on transformer interpretability, model training, and hyperparameter tuning
- Projects include building a raytracer, custom ResNet, simple backpropagation framework, custom BERT, and scaled GPT

AI 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 mathematics to education

Bioinformatics Research Assistant (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

INDUSTRY EXPERIENCE

Incoming Data Scientist Expected Sep 2023
Adobe | McLean, VA
- Incoming data scientist; expected graduate of Adobe's Data Science Apprenticeship program

Data Science Apprentice (6 mos) Mar 2023 – Aug 2023
Adobe Digital Academy | Remote
- Selected finalist for Adobe's Data Science Apprenticeship program
- Fast tracked to data science position 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 major projects (including SQL ETL database, full-stack web-based machine learning app)

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)

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