

CHRISTOPHER DENQ

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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.

EDUCATION

University of Pennsylvania Philadelphia, PA BA, Philosophy and Art History – <i>magna sum laude</i>	May 2021
Foothill Community College Los Altos Hills, CA Non-Degree, Mathematics and Political Science <ul style="list-style-type: none">Courses: Linear Algebra, Discrete Mathematics, Multivariate Calculus, Elementary StatisticsCourses: American Politics, Political Philosophy	Present
University of Illinois – Springfield Springfield, IL Non-Degree, Mathematics and Political Science <ul style="list-style-type: none">Planned Courses: Differential Equations, Probability Theory, Statistical InferencePlanned Courses: American Legal System, Public Policy	Present
Stanford University Stanford, CA Non-Degree, AI Safety <ul style="list-style-type: none">Courses: Introduction to AI Alignment (AGI Safety Fundamentals equivalent)	Dec 2022

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 & CONFERENCES

Dartmouth AI Safety Club Officer AI Safety x Dartmouth, Dartmouth College Dartmouth, NH	(4 mos) Dec 2022 – Present Contact: Mark Lovett
<ul style="list-style-type: none">Performs logistics for new AI-Safety-specific club at Dartmouth (fall launch); club currently pre-faculty-mentorProvides 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 AI Safety Camp 8 (AISC) Remote	(5 mos) Mar 2023 – Jul 2023 PI: Dr. Koen Holtman
<ul style="list-style-type: none">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 requestsDeveloped 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

SELECTED INDUSTRY EXPERIENCE

Incoming Data Scientist

Expected Sep 2023

Adobe Inc. | McLean, VA

- Incoming data scientist; expected graduate of Adobe's Data Science Apprenticeship program

Data Science Apprentice

(6 mos) Mar 2023 – Jun 2023

Adobe Digital Academy | Remote

- Selected finalist for Adobe x General Assembly's Data Science Immersive 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

- Wrote grant to address local community issue; obtained city vendor license, 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