# CHRISTOPHER DENO

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#### **EDUCATION**

## **University of Illinois Springfield**

Springfield, IL (Remote)

Bachelor of Arts in Mathematics, Minor in Political Science

Jan 2023 – May 2025

Course: Linear Algebra, Probability Theory, Statistical Inference, Mathematical Statistics, Operations Research Methodologies, Differential Equations, Probability Compute and Modeling

#### Stanford University, School of Engineering

Stanford, CA (Remote)

Incoming Visiting Graduate Student (SCPD)

Sep 2023 – Dec 2023, Apr 2023 – Jun 2023

Course: Computer Organization & Systems, Operating Systems Principles

### Northern Virginia Community College

Fairfax, VA (Remote)

Visiting Student

Jan 2023 - May 2023

**Course:** Intro to Public Speaking

#### **Stanford University**

Stanford, CA (Remote)

Visiting Student

Sep 2022 – Dec 2022

**Course:** Intro to AI Alignment (AGI-SF equivalent)

### **Foothill Community College**

Los Altos Hills, CA (Remote)

Visiting Student, Mathematics

Apr 2022 – Dec 2022

Honors: Foothill Business Innovation Challenge (\$500 for full-stack ML web app prototype)

2022

Course: Multivariate Calculus, Elementary Statistics, Discrete Mathematics

University of Pennsylvania Certificate in Data Analytics and Visualization Philadelphia, PA (Remote) Sep 2021 – Mar 2022

### University of Pennsylvania

Philadelphia, PA

BA in Philosophy, Specialization in Humanistic Philosophy

Aug 2018 - May 2021 Aug 2015 – May 2021

BA in History of Art

Candidate BS in Economics, Concentration in Statistics (Wharton)

Aug 2016 – May 2018

Note: Changed from Statistics to Philosophy half-way through undergraduate career

**Honors:** John C. Parker Fellowship (\$500 for statistical game theory research in board game scenarios)

2016

## Van Nuys Senior High

Van Nuys, CA

Highly Gifted Math and Science Magnet

Aug 2011 - Jun 2015

**Honors**: *summa cum laude*, ranking 3/582

## RESEARCH EXPERIENCE

#### AI Technical Standards Researcher

Netherlands (Remote)

AI Safety Camp (AISC)

Mar 2023 – Jul 2023

- Supervised by Dr. Koen Holtman, Dutch representative on the Europa technical standards committee (EU CEN-CENELEC JTC21 Committee); part of AI Safety Camp (AISC 2023)
- 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 Research Intern**

Stanford, CA (Remote)

Stanford AI Alignment's SPAR, Stanford University

- Jan 2023 Mar 2023
- Advised by Robi Rahman (Stanford Center for Human-Centered AI); part of Stanford AI Alignment's Supervised Program for Alignment Research (SPAR 2023)
- Analyzed historical AI metrics (parameter, compute, dataset) across 31 countries to verify regional forecasting trends and inform governance strategies

#### **Cambridge Machine Learning Fellow**

Cambridge AI Safety Hub's MLAB, Cambridge University

Cambridge, England (Remote) Jan 2023

- Selected fellow for Cambridge AI Safety Hub's CaMLAB program (Winter 2023)
- Worked on transformer interpretability, model training, and hyperparameter tuning
- Projects include building a raytracer, custom ResNet, simple backpropagation framework, custom BERT, and scaled GPT

### **Berkeley AI Audit Research Intern**

Berkeley, CA (Remote)

EA@Berkeley Group's GFI, UC Berkeley

Dec 2022 - Jan 2023

- Advised by Mauricio Baker (contract GovAI) and Aris Richardson (SERI MATS); part of EA @ Berkeley's Good Futures Initiative (GFI 2022-2023)
- 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

#### **Machine Learning Student Assistant**

Northridge, CA (Remote)

AI-x Group, California State University: Northridge

Nov 2021 – May 2022

- 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

#### **Bioinformatics Machine Learning Research Assistant**

Gainesville, FL

Systems Biology Laboratory, University of Florida

Jun 2012 - Sep 2013

- Assisted professor Su-Shing Chen and jointly published paper on biomarkers and their role in predicting Alzheimer's Disease based on dependence and gender
- Compiled, organized, analyzed over 10,000 returning results per test; provided general documentation and proofreading
- Succeeded in contributing to the development of algorithmic application using machine-learning and SVM-based feature selection methodology

## WORK EXPERIENCE

**Adobe Digital Academy** Data Scientist Apprentice New York, NY (Remote)

Mar 2023 - Jun 2023

- Selected scholarship finalist (1.6% admittance) for Adobe x General Assembly's Data Science Immersive program
- Fast-tracked interview for data science position with Adobe

## **PNC Financial Services Group** Summer Data Analyst Intern

Brecksville, OH (Remote)

Jun 2022 – Aug 2022

- Creates insightful data products for mid-upper management of 5+ teams to monitor team performance, health, risk, and
- Takes initiative in scaling and automation by introducing Python and ML/AI solutions to enhance standard SQL process
- Successfully contributed 6 live dashboards used by 10+ managers and 80+ team members across 2 departments

### 2U - Trilogy Education Services

Atlanta, GA (Remote)

Program Teaching Assistant Jun 2022 – Aug 2022

- Tutors 5-7 students on weekly basis; accumulated 60+ hours in teaching Fullstack Development and Data Analytics
- Successfully performs code reviews, provides feedback on projects, and teaches code to 13 students spread across 8 bootcamps

Wyzant.com Various (Remote)

Freelance Computer Science Tutor

Sep 2021 – Present

- Taught computer science topics to 25+ high school, college, and adult learners for total 65+ hours ranging from coding fundamentals to advanced data structures and algorithms to machine learning topics
- Succeeded in adapting teaching style, clearly communicating abstract computer science concepts, mentoring students

## Kings Court English College House, University of Pennsylvania

Philadelphia, PA

Chair of Manager Board

Aug 2017 – Mar 2020

- Managed team of 11 other managers, leads weekly meetings, liaisons for 3 student staff groups
- Led 14-16 annual house initiatives, 12 study break events for 450+ students, 5 residential programs
- Succeeded in 20% increased student engagement (30.7 from 25.6), 12% increased event quality ratings (4.4/5 from 3.9/5), 3 new event traditions, and 2 new in-house management strategies over 4 years

### Oasis Commissary (Non-Profit) & Mirage Lounge, University of Pennsylvania

Philadelphia, PA

Founder and Executive Business Operations Manager

Sep 2016 – Mar 2020

- Wrote proposal to turn unused dormitory space into non-profit commissary, obtained vendor license from Philadelphia city
- Managed 21 staff and 2 junior managers, \$2000 bi-monthly budget, 6 marketing campaigns, 2 training programs
- Maintained in-house lounge (Mirage Lounge): hosted 5 semesterly arts & crafts/relaxation/enviro-conscious programs
- Succeeded in serving local college dorm for 3 years: \$1300 gross (returned to Penn), 22k purchases, 180 unique clients

#### **Christie's Auctions & Private Sales**

New York, NY (Remote)

Summer Intern / Student

Jun 2020 - Aug 2020

- Attended over 3+ onsite auctions and hilling meetings; helped client communication
- Contributed to 6+ condition reports, appraisals, and clients' collection package documentations
- Succeeded in helping Christie's adjust to accelerated digital marketplace and understanding of role as auction house during pandemic

Kapp Kapp Gallery

New York, NY & Philadelphia, PA

Dec 2019 – Mar 2020

Winter Gallery Intern

- Trained, operated in 3-person team; staffed to real collector engagements as intern
- Assisted in establishing Philadelphia branch; performed daily operations that benefitted both branch
- Researched 16 artworks in 3 collections over 2 locations, contributed to 2 winter catalogs

**Arthur Ross Gallery** 

Philadelphia, PA Sep 2019 – Mar 2020

Fall and Spring Docent

• Learned gallery material, docent etiquette, and general operations of collegiate gallery

- Led 4 tours for Jaume Plensa's Talking Continent exhibition
- Led 6 tours for Helen Frankenthaler's Frankenthaler on Paper exhibition
- Succeeded in conveying abstract artistic concepts, engaged over 65+ visitors across 10 tours, and gained 20+ new email subscribers

**Fulphil** 

Philadelphia, PA

Jun 2019 – Aug 2019

Summer Business Administration Intern

- Operated in 3 of startup's departments: Marketing, Social Outreach, Development
- Reviewed startup budget and programming price points
- Engaged 12 high school entrepreneurs as part of Fulphil's Social Impact Business Kickstarter program
- Succeeded in maintaining general day-to-day operations and completing the Social Impact Business Program

#### Philadelphia Museum of Art

Philadelphia, PA

Spring Museum Acquisition Student/Intern

Jan 2019 – May 2019

- Worked directly with Dr. Darielle Mason, Stella Kramrisch Curator of Indian and Himalayan Art
- Academically investigated curation/exhibition of Philadelphia Museum of Art's own collections
- Participated in Asia Week @ New York, 7 different auctions and galleries, researched 2 potential acquisition pieces

#### McKinsev & Company

New York, NY

Summer Business Analyst Intern

Jun 2018 - Aug 2018

- 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

## Kings Court English College House, University of Pennsylvania

Philadelphia, PA

Summer Business Development Intern

Jun 2017 - Aug 2017

- Wrote and presented 1 grant proposal to Penn College House Committee to convert under-utilized building space into commissary for in-house students
- Worked on developing budget, securing industry equipment (shelves, coolers, cashiers), inventory sales patterns, staff training regiment
- Succeeded in pilot summer, successful enough to be reclaimed by Penn, promoted to Executive Business Operations Manager

### **Bo-Ren Construction Company**

Summer Real Estate Consulting Apprenticeship

- Kaohsiung City, Taiwan May 2016 – Aug 2016
- Learned introductory to advanced real estate concepts, including 4 recent Taiwanese case studies
- Performed market research, financial analysis, and data analysis on over 400k housing data points to generate product program and positioning recommendations for 6 city projects totaling \$200M+ in development
- Wrote 4 drafts and final reports, presented results to 15+ audience members of mixed seniority
- Succeeded in learning about real estate concepts and applying market and financial research to data-informed consulting projects

## California State University, Northridge

Northridge, CA

Spring CSI Class Data Intern and Project Facilitator

Jan 2016 – May 2016

- Worked with Dr. Wen-Chin Hsu on curriculum proposal for using a new multimedia tool in teaching introductory computer science in 3+ course sections to 120+ students
- Gathered both quantitative and qualitative data through Google forms and analyzed over 9k data points over 1 semester to best provide feedback for project transition
- Succeeded in supporting smooth integration of new teaching tool to introductory computer science classes and helping provide 6 visualizations and 10+ quantifiable metrics to academic report

#### **PUBLICATIONS**

A diagnostic methodology for Alzheimer's disease

Apr 2013

https://www.researchgate.net/publication/236337563 A diagnostic methodology for Alzheimer's disease