

Nick DiSanto

<https://nickdisanto.github.io>

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+1 (707) 483-2154

Education

California Baptist University

Aug. 2019 – Apr. 2023

B.S. in Computer Science, *summa cum laude*

GPA: 4.0/4.0. Ranked #1 in graduating class.

Experience

CalBaptist ML & NLP Lab

Jan. 2022 – Present

Lead Undergraduate Researcher

- Investigates representation learning to find abstract patterns in unstructured social media data, challenging the necessity of complex algorithms for natural language pattern recognition
- Proposes a novel approach to data preprocessing that allows medical imaging models to better perceive their environments and democratizes accessibility for underrepresented communities
- Produced analyses and applications for three papers, leading the team from inception to execution

Sirch

Sep. 2023 – Present

NLP Consultant

- Builds models that perform Query Auto-Completion (QAC), information retrieval, and NLU
- Scales product to efficiently handle increasing foot traffic while maintaining a personalized UI

General Electric

June 2022 – Aug. 2023

Software Engineering Intern

- Led the development, implementation, and deployment of an automated database cleanup initiative that saves the organization thousands of dollars per year
- Developed and optimized microservices for large-scale data ingestion and analytic applications

Keysight Technologies

June 2021 – Aug. 2021

Software Engineering Intern

- Created a web-based platform for process/document management and team collaboration. Built product customization applications to enable clients to tailor their specific purchases
- Used T-SQL to perform high-level data analysis, eliminating 40% of product-option configurations

Publications & Preprints

Transcending the Attention Paradigm: Representation Learning from Geospatial Social Media Data.
N DiSanto, B Sanders, G Harding, N Corso, A Corso. In Submission, 2023. [\[pdf\]](#) [\[code\]](#)

Spatial Analysis of Social Media's Proxies for Human Emotion and Cognition.

A Corso, N DiSanto, N Corso, G Harding, K Wang, B Sanders. In Submission, 2023. [\[code\]](#)

Leveraging Contextual Data Augmentation for Generalizable Melanoma Detection.

N DiSanto, G Harding, E Martinez, B Sanders. arXiv preprint arXiv:2212.05116, 2022. [\[pdf\]](#) [\[code\]](#)

Beyond Interpretable Benchmarks: Contextual Learning through Cognitive and Multimodal Perception.

N DiSanto. arXiv preprint arXiv:2304.00002, 2022. [\[pdf\]](#)

Teaching Experience	Intro to C++, <i>Teaching Assistant</i>	Spring 2023
	Discrete Structures, <i>Teaching Assistant</i>	Fall 2022
	Algorithms, <i>Tutor</i>	Spring 2022
	Computer Architecture, <i>Tutor</i>	Spring 2022
	Physics for Engineers II, <i>Teaching Assistant</i>	FA/SP 2021
Presentations	<i>Twitter2030 – Empirical Social Media Analysis</i> . [Co-presented].	Apr. 2023
	CBU Undergraduate Thesis and Capstone Composition	
Service	Secondary Reviewer	
	<ul style="list-style-type: none"> • <i>Decision Support Systems</i>, 2023 • <i>Mathematics</i>, 2022 	
Awards & Honors	CS Outstanding Student Award (ranked #1/40)	Apr. 2023
	Inducted into Alpha Chi Honor Society (top 10%)	Apr. 2022
	Physics Performance & Leadership Award	Dec. 2021
	President's List (every semester of undergraduate study)	FA 2019 – SP 2023
	Trustee Merit Scholarship	FA 2019 – SP 2023
	Engineering Excellence Scholarship	SP 2021 - SP 2023
Leadership	Founder and President of CBU Chess Club.	
	Member of CBU's Association for Computing Machinery (ACM) Chapter.	
	Lead trumpet and section leader in 4 competitive CBU musical ensembles.	
	Set up a newly opened high school's computer lab.	
	Performed STAR test data analysis for an elementary school in a low-income area.	