

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 method of 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. [\[pdf\]](#)

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|----------------------------|---|-------------------|
| 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 Association for Computing Machinery (ACM) Chapter. | |
| | Lead trumpet and section leader in 4 competitive musical ensembles. | |
| | Set up a newly opened high school's computer lab. | |
| | Performed data analysis of STAR test data for an elementary school in an underrepresented area. | |