

KEVIN C. SCROGGINS

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Education

University of Florida (Gainesville, FL)

Aug 2024 - Present

Ph.D., Computer Science

Advisor: Dr. Emanuel Dorley

Brown Univeristy (Providence, RI)

Sc.M., Computer Science

Advisor: Dr. Stephan Bach

California State Polytechnic University, Pomona (Pomona, CA)

BS, Computer Science

Advisor: Dr. Ben Steichen

Publications

ACM UMAP 2020 Steichen, B., Castillo, C., Scroggins, K. **Personalized Multilingual Search - Predicting Search Result List Language Preferences.** Proceedings of the 28th International Conference on User Modeling, Adaptation, and Personalization

Research Experience

Intelligent Agents Research Lab

Aug 2024 - Present

Advisor: Dr. Emmanuel Dorley (University of Florida)

- Conducting research on intelligent agents and decision making under uncertainty.

Probe Lab - Photonics Research Bio/Nano Env.

Advisor: Dr. Joshua Burrow (Brown Univeristy)

- Applied semi-supervised/supervised learning techniques for image registration to correct erroneous detection of pulse oximetry in patients with melanated skin.

Bats - Machine Learning Research Group

Advisor: Dr. Stephan Bach (Brown Univeristy)

- Worked on an NSF funded project in collaboration with the physics department, Dr. Pober's lab. Using weakly supervised machine learning techniques to identify Radio Frequency Interference (RFI) in radio astronomy data.

Happi Lab - Human-Centered, Adaptive, And Personalized, Information Interaction

Advisor: Ben Steichen (California State Polytechnic University, Pomona)

- Inferring visualization task properties with machine learning for user performance and cognitive abilities from eye gaze data.

- Designed & develop personalized multilingual search and recommendation systems that adapt to the retrieval, composition, and Presentation of multilingual information.

Work Experience

Bloomberg

May 2023 - Aug 2023

Trading & Analytics Intern

- Created a highly visible, client facing feature for specialty asset traders on the Bloomberg Terminal, that automated trade entries directly from the Instant Bloomberg (IB) Window.
- Explored open source NLP libraries to allow for the ingestion of free formed data to improve the feature referenced above.

LinkedIn

May 2022 - Aug 2023

Software Engineer Intern

- Using pyhocon, a Python library, to automate the removal of overdue lix keys in .conf files.
- Assisted in the migration efforts of the feed infrastructure team by writing new java classes to conform with the new API for LinkedIn's filter policies.

Twitter

May 2021 - Aug 2021

Software Engineer Intern

- Wrote a python based Cron job that scans multiple clusters gathering database growth metrics.
- Created runbook to document the functionality of codebase.

Zillow

May 2020 - Aug 2020

Software Engineer Intern

- Enhanced a large scale system with 10+ services, centralizing photo processing, storing, and serving.
- Improved flexibility of the team for future migrations by removing dependencies on UserDB.

Snap Inc.

Jun 2019 - Sep 2019

Software Engineer Intern

- Created a feature that enabled real-time data ingestion allowing for a broader audience to adopt the feature.
- Optimized batching of real-time events to be cost effective for a larger existing infrastructure.

Adobe

Jun 2018 - Sep 2018

Research Intern

- Using librosa, a python library, converted the noisy and clean .wav files to an audio spectrogram.
- Trained a Convolutional Neural Network on clean and noisy paired .wav files to perform specific tasks, i.e, noise cancellation and audio separation.

Leadership & Service

National Society of Black Engineers (NSBE)

Cal Poly Pomona Chapter President

Aug 2019 - May 2021

- Developed marketing and social media strategy that successfully grew club involvement by 75%.
- Raised \$33,000 to fully fund over 20 members to attend the Spring National Conference.
- Improved alumni relations: established meet-and-greet program and doubled donations.

Honors & Awards

- Fall 2024 HWCOE Dean's Fellowship
- GEM PhD Fellowship
- Google Conference Scholarship 24'
- Black at Brown Graduate Grant