

Rishit Das

rishit.info | <https://www.linkedin.com/in/rishitdas/> | <https://github.com/ppinkfreudd> | rdas@ucdavis.edu

Education

University of California – Davis

Davis, CA

B.S. Cognitive Science (Computer Science Track) | Graduation: 06/26 | GPA: 3.6

Experience

GARDE | <https://garde.netlify.app/>

Davis, CA

Co-founder

03/24 – Present

- Developed a fencing AI coach using TensorFlow.js, BlazePose, custom React components, and MongoDB, with frontend built using Next.js, TailwindCSS, Spline, and Plotly.js, plus a dashboard for coach feedback (MERN stack).
- Presently working with 2 Olympic coaches to better product fit and applying to pre-seed VC firms to secure funding.
- Awarded 1st place in UC Davis Sports Analytics Club from a panel of Nvidia, EY, and Intel judges out of 14 teams.

Integrated Attention Virtual Reality Lab | genglab.ucdavis.edu

Center for Mind and Brain, UC Davis

Paid Research Assistant

09/23 – Present

- Created a data pipeline using Pandas, Matplotlib, Seaborn, and NumPy to handle VR data for over 200 participants for a NIMH-grant study on how visual attention and navigation works in virtual reality via Vizard and HP Omnicept.
- Investigated how audiovisual objects influence the navigation of participants using positional data; presented as poster at Undergraduate Research Conference and the Psychology Conference, securing 3rd place for best presentation.
- Currently engineering a 3D object clustering algorithm with DBSCAN and RSA matrices to group visually similar objects as a predictor of clusters in eye-tracking fixation data; also analyzing an ADHD subset of a child cohort.

Wavelength | <https://github.com/nmaffly/Wavelength>

Student Startup Center, UC Davis

Tech Lead

03/24 – 07/24

- Launched a demo of a Spotify dating app using Flask, D3.js, Spotipy, AWS EC2/Route53, MySQL, and HTML/CSS.
- Created an algorithm to overcome the 25-user limit for the Spotify API, helping us have an event where 70 people came together to try Wavelength at a local Davis art house, The Secret Spot, helping us gain important user feedback.
- Received \$5,000 from the UC Davis Startup accelerator, PLASMA, through the Mentor's Choice Award.

Projects

Rhythmoji (Founder)

University of California, Davis | Sep 2023 – Present

- Converts Spotify listening data to a Lego character. In the process of getting access from Spotify for public release.
- Authored flow of 'Rhythmoji' creation, spearheaded AWS EC2 server setup, and led frontend development.

[GitHub](#) | **Tools:** Spotipy, OpenAI API, Node.js, Flask, HTML/CSS/JS, Swiper.js, Express, AWS, and Docker.

Machine Learning on Neural Correlates of Schizophrenia

Keshavan Lab | Aug 2021 – Sep 2022

- Analyzed neuroimaging data from 59 schizophrenia patients at McLean Hospital, MA to research the inverse relationship between the lateral ventricles and corpus callosum volumes of the brain and its genetic linkages.

[Presentation](#) | **Tools:** Python, R, and Alteryx.

The Relationship Between Subliminal Stimuli and Emotion

Kogiito | Jun 2020 – Sep 2020

- Explored relationship between subliminal stimuli (<100ms) and emotion by utilizing eye-tracking, NLTK, and reigning psychological theories of emotion to build more accurate predictions of emotions in real-life conditions.
- Presented at The Science of Consciousness (TSC 2020), where I also led a workshop on unconscious cognition.

[Presentation](#) | **Tools:** Python, Pandas, TextBlob, NLTK, and Eye-tracking.

Additional Information

AWARDS

- **Amy Lee Memorial Essay Prize** for my essay, "The Decomposition of the Narratological Framework in Pedro Páramo", given to 1 student annually by the UC Davis Comparative Literature department for outstanding writing.
 - **Finalist in EBSA Spring Quarter '23 Case Competition** with River City Bank; presented on investment risks for the bank
- JOBS:** Mail Clerk at Orchard Park Apartments (10 hours/week) | Research at Center for Mind and Brain (10 hours/week)
- LANGUAGES:** English, Hindi, and Odia. **INTERESTS:** Hiking, cool blogs, Effective Altruism, FIFA 24, and good design.