Sujay Nair

Research Website, Google Scholar, snair303@gatech.edu, 1-530-400-1064, US Citizen, Atlanta, San Francisco, Seattle

EDUCATION

Georgia Institute of Technology 2022-2026
Deans Scholarship for College of Sciences, Faculty Honors, Deans List
Candidate for Bachelors in Computer Science
Candidate for Bachelors in Mathematics

RESEARCH EXPERIENCE

Intern (5th Set Analytics) 2023
Automated foul calling/refereeing for basketball using AWS cloud services. Integrated MMPOSE 2D and 3D pose detection to analyze players' arm positions for illegal contact and shooting fouls.
GitHub

Researcher (NASA Exoplanet Watch - Award #NNX16AC65A) 2019-2022
Updating exoplanet properties using light curve data: Publications at American Astronomical Society (AAS), Publications of the Astronomical Society of the Pacific (PASP), Journal of Double Star Observations (JDSO), Society for Astronomical Sciences (SAS), Exoplanet3 Heidelberg, and ExoDem Caltech.

Research Intern (NASA JPL) 2021
Research internship with Dr. Kyle Pearson using convolutional neural networks to detect 5000+ Extrasolar Planet transits and recurrent neural networks to predict 4 planetary parameters (RP/RS, A/RS, Period, Mid-transit Time).

"Sequence-based Encoding of Light Curves for Exoplanet Detection"
Sujay Nair, Kyle Pearson
Presented: IPoster presentation for AAS 238

HONORS & AWARDS

Betty Neall Youth Award of Merit, East Bay Astronomical Society 2021
1st Place, Washington State Science and Engineering Fair 2021
Wolfram Research Award, Washington State Science and Engineering Fair 2021
NASA Earth System Science Award, Washington State Science and Engineering Fair 2021
Select Interview for the Research Notes of the American Astronomical Society, American Astronomical Society 2020
President's Award for Educational Excellence, President's Educational Awards 2019

ADDITIONAL COURSEWORK

XSeries Program in Astrophysics (4 Courses), Australian National University 2020-21
Deep Learning Specialization (5 Courses), deeplearning.ai 2019-20
Data Science Specialization (10 Courses), Johns Hopkins University 2018-19

SKILLS

Languages - Python (PyTorch, Tensorflow, Numpy), R, Java, C, C++, x86 Assembly
Technologies - AWS, GCP, GitHub, JavaFX
Concepts - Object Oriented Programming, Data Structures and Algorithms, Artificial Intelligence, Exoplanets, Double Stars, Astrophysics/Cosmology