

Suhan Asaigoli

Neuroscience (B.S), Neurohumanities, Cognitive Health, and Experience (B.A)
University of North Carolina at Chapel Hill
Morehead-Cain Scholar, Scott Carolina Scholar

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EDUCATION

- **University of North Carolina at Chapel Hill** 2023-Present
B.S Neuroscience, Computer Science - Scott Carolina Scholar GPA: 3.94
Activities: Phi Delta Epsilon, Bharat Sangeet, Office of Undergraduate Research Ambassador

EXPERIENCE

- **AIMCORP - Founder/CEO** 2019-Present
Founder/CEO Morrisville, NC
 - Leading a startup **501c(3) Non-Profit**: catalyzing impactful change through innovation. Leading a social-impact startup engine prioritizing diversity, equity, and inclusion. **Featured programs**: International Outreach, E-learning Educational Device Drives, Tech Startups
- **InspireNC** 2018-Present
Director Cary, NC
 - Leading and mentoring students at a **501c(3) Non-Profit**: shaping innovation through inspiration. Fostering equitable access to opportunities for STEAM education in North Carolina communities. **Cost Free STEAM programs**: International Outreach, FIRST Robotics Competition, First Tech Challenge, Cyberpatriots
- **UNC School of Medicine Radiology, UNC/NCSU Joint BME - Lee Lab, Gomez Lab** 2023-Present
Computational Medicine Researcher Chapel Hill, NC
 - Awarded SURF Fellowship - leveraging deep learning, computer vision, Freesurfer, Fastsurfer, for Radiology to create an deep-learning powered automatic screening pipeline for iNPH and Alzheimer's Disease.
- **PES Center for Pattern Recognition** 2023-2024
Computational Immunology Researcher Bengaluru, India
 - International research collaboration with PES Center for Pattern Recognition. Leveraged AI/ML, Simple RNN, LSTM, Transformers, RDKit, Pyrosetta, BioPython with Pytorch and Tensorflow Keras for applications in de-novo molecule generation
- **North Carolina DHHS - NC Carolina Cancer Registry** 2023-2023
GIS Technician Raleigh, NC
 - Led Geocoding of 10,000+ North Carolina cancer patient cases with the Carolina Cancer Registry. Related skills: Microsoft Access Database, SQL, SQL Server Management Studio, ArcMap, Data Analysis, Data Management, Data Entry.
- **Carolina Primary Care | Apollo Urgent Care** 2024-Present
Medical Assistant Morrisville, NC
 - Providing patient care and completing health administrative tasks. Adept in patient interaction, interventions administration, EMR, referrals

SKILLS

Languages: Python, C++, SQL, Arduino

Design/Modeling: Fusion360, Solidworks, 3D Printing, CNC Milling/Router, CAM

Web Development: Wordpress

Audio/Video: Photoshop, Premiere Pro, After Effects, FinalCut, Garageband, FL Studio, LogicPro, Krita

Machining/Engineering: Robotics, Fabrication, 3D Printing, Power Machinery, CAM, Power Tools

Frameworks: Tensorflow, Keras, PyTorch, ESM2, PROTGPT2, Transformers, Biopython, Pyrosetta

Administrative: Grant Writing, Data Entry, Data Analysis, Data Management, Budgeting, Project Management

Areas of Interest: Computational Medicine, Deep Learning, NLP, Generative AI, AI/ML, Computational Linguistics

RESEARCH - SELECTED WORKS

- **(Poster, Published Abstract) Asaigoli, S.** Revolutionizing Molecular Imaging and Therapeutics: A Novel Deep Learning Tool for De Novo Single-Chain Variable Fragment Agents. UNC School of Medicine, Chapel Hill, NC. October 12, 2023.
- **(Poster, Published Abstract) Asaigoli, S.** Advancing Cleidocranial Dysplasia Diagnosis: A Novel Deep Learning Diagnostic Tool Utilizing Thoracic Radiograph Images. UNC School of Medicine, Chapel Hill, NC. October 12, 2023.
- **(Poster) Asaigoli, S.** Advancing Cleidocranial Dysplasia Diagnosis: A Novel Deep Learning Diagnostic Tool Utilizing Thoracic Radiograph Images. Triangle Indian-American Physicians Society CME Symposium. Raleigh, NC. September 16, 2023.

EXTRACURRICULAR ACTIVITIES

- **Science Olympiad Event Supervisor, Coach** *2022-Present*
 - Managing events for Division A and C for the prestigious Science Olympiad tournaments including the NC Science Olympiad Regional and State Tournaments, CarolinaSO, GullSO and RickardsSO
 - Helping to Coach the National Finalist William G. Enloe Science Olympiad team. Administrative and logistics management, engineering and study event mentorship.
- **Music** *2009-Present*
 - Western and Indian Classical training in instrumentation and performance. Instruments: Piano, Western Flute, Carnatic Flute, Tabla, Maddale, Chende, Ukelele. Accompaniment of prominent Triangle Indian Classical music and dance artists. Lead accompaniment in UNC Bharat Sangeet. Youtube music cover artist and Original Compositions. Original Music released on major streaming platforms under 'Suhan Asaigoli'.
- **NorthSouth Foundation: Raleigh Chapter** *2022-Present*
 - Managing the Raleigh Chapter of NorthSouth Foundation as the Assistant Chapter Director. Management of daily operations and organization of an annual statewide chapter competition raising money to fund scholarships for underprivileged youth primarily in India.
- **FRC 6908: Mentor** *2023-Present*
 - Mentoring FRC and FTC robotics teams under InspireNC in robot rational/competitive design, fabrication, software development, business, media/marketing, and media. Led team to District Finals in 2024.

PROJECTS

- AIMCORP CPR Buddy:** Creating a low-cost CPR provision and training tool for improvement of CPR literacy and emergency preparedness - U.S Provisional Utility Patent
- CasNovo:** Leveraging simple to advanced language models for de-novo Cas9 protein generation for CRISPR-Cas9. Technologies include: Simple RNN, PROTGPT2, AlphaFold, ESMFold, HuggingFace Transformer, Tensorflow Keras, Pytorch, ESM-2
- MaiALS:** Developing a novel companion app for ALS patients and families with the Betty's Brigade Foundation and Duke ALS Clinic. Leveraging Gemini API, Google Cloud, Firebase, Flutter SDK to create advantageous features such as symptom tracking, behavioral screens, caregiver screens, and clinical trials matching
- UNC Hillsborough ED Toiletry Closet:** Working with UNC Hospitals and UNC Health to establish a pilot toiletry closet in the UNC Hillsborough Hospital Emergency Department. Providing vital toiletries and clothes to homeless patients, domestic violence victims, and uninsured individuals upon discharge.

ACHIEVEMENTS

President's Volunteer Service Lifetime Achievement Award • Daily Point of Light Award National • FRC Sustainability Award • FRC Sustainability Award • Science Olympiad 4x National medalist, State Medalist, MIT, Harvard, Yale, UPENN, Duke • AP Scholar with Distinction