Mentorship Program

Intro Meeting

Quick Meeting Overview

1. Questions
2. Research Opportunities at GIT
3. My Research Projects
4. Other Research Projects

Questions

How many classes have you taken and what were they?

What's your current research experience?

I'm a mentor because I am a part of 8903, and not because I possess some special secret knowledge.

Research Opportunities at GIT

Volunteer

Some additional volunteer opportunities (academic writing assistants, seminar program, etc.)

Check School Email and OMSCS Research EdSTem

Vertically Integrated Projects (VIP Program)

For 4000-Level Credit, Can Count Towards Degree:

https://vip.gatech.edu/how-credits-count-ms-computer-science

CS 8903 Special Problems

By Application System: Approx. 300 Applicants, 100 Research Plans, 15 Spots (HAAG)

By Applying to or Contacting Professor Directly

Master's Thesis

Hard to do if you are OMSCS

CS 8903 x3

* Volunteering or participating in VIP can increase your chances of getting into CS 8903.

CS 8903 Structure for Human Augmented Analytics

Team Members

0-2 other graduate students

0-1 undergraduate students (I think I was the only one in the program with an undergraduate student)

0-1 academic writing assistants per team (graduate student volunteers)

Advisors

Phd candidate advisor: Breanna Shi

Collaborating Professor: Arthur Porto, etc.

Asynchronous + Some Synchronous Meetings

Weekly meetings with your team (+ with your side project leader or team if you're in higher ed).

Semi-weekly seminars hosted by professors and students.

Mentorship program meetings as chosen by mentors and mentees.

CS 8903 Structure for Human Augmented Analytics

Evaluations and Deliverables

Weekly Reports - each contains a literature review, code summary, visualization of results, documentation, etc.

Progress Towards a Publication - either submission to a conference or a solid draft to work towards a publication

Time Commitment Expectations

Whatever you fill out on the application. Either 10 hours or 10+ hours weekly. Realistically, the time commitment will likely be lower the first couple of weeks and then much higher as you get involved in projects and try to meet deadlines.

My Semester Research Projects

Higher Education Research Team

Admin team that works with Bree to manage code base solutions, contribution tracking, resource management, researcher support, and program development.

Each team member also has an additional research side project.

Targeted Output: Small Conference Paper

Cichlid Computer Vision (Side Project)

Working with Bree to improve the classification of male and female cichlid fish with temporal features alone.

Dataset creation from yolo outputs and experiment files, feature engineering, unsupervised learning (clustering), dimensionality reduction, supervised learning.

Targeted Output: Conference Paper

Other Semester Research Projects

Higher Education Research Team (My Team)

Cichlid Computer Vision Project - track re-identification after long-term occlusions

Natural Florida History Museum Project - create interface to retrieve images of natural history items

NLP Letters Project - remove gendered info from medical residency programs and the predict the gender of the applicant

NREL Competition Project - app for energy efficiency for a sustainability contest

Webscraping Project - create a tool for exploring rent data

Website

Link to HAAG: https://sites.gatech.edu/human-augmented-analytics-group/