



ACADEMIC FACULTY INFORMATION FORM
For the period September 1, 2021 thru August 31, 2022

Name Supraja Gurajala Title Assistant Professor Department Computer
Science

I. Teaching Effectiveness

A. Courses taught

Fall 2021:

COMPUTER SCIENCE I-LEC - 95837 - CIS 201
COMPUTER SCIENCE I-LAB - 95782 - CIS 201
COMPUTER SCIENCE I-RECITATION – 97921-CIS 201R
THEORY OF COMPUTATION - 95593 - CIS 301
DATABASE SYSTEMS - 96287 - CIS 420
COMPUTER SCIENCE INTERNSHIP- 94360 - CIS 480

Spring 2022:

COMPUTER SCIENCE I-LEC - 87681 - CIS 201
COMPUTER SCIENCE I - LAB - 87808 - CIS 201
COMPUTER SCIENCE I – RECITATION - 88714 - CIS 201R
DATA ANALYSIS & VISUALIZATION – 88715 – CIS 325
COMPUTER NETWORKS - 87116 - CIS 410
SENIOR PROJECT - 87887 - CIS 480
COMPUTER SCIENCE INTERNSHIP- 89219 - CIS 480

B. Procedures used to evaluate teaching

Student Evaluations
Peer Evaluations
Self Reflections

C. Other observations regarding teaching

Fall 2021 observations:

I taught CIS 201 (Computer Science 1; Lecture, lab and Recitation), CIS 301 (Theory of computation), and CIS 420 (Databases) and advised one student during his internship in Fall 2021. All these courses were offered in-person. This is the first semester when we returned entirely to in-person operation after the pandemic. During Fall, students missed classes because of quarantine and to address this I offered students the option of joining the class on zoom during my in-person teaching and also posted recordings on Moodle. I restricted the online offering to the days when students were in quarantine to avoid healthy students opting out of class. I taught the new CIS 201 Recitation class to improve retention of freshmen in our program. This class was helpful to students who needed it but with lecture, lab and recitation associated with this class, the

6 hours of contact for 4 credits proved to be overwhelming for the students. Overall, in spite of some challenges with returning to face to face offering, I would classify Fall 2021 teaching as a success.

Spring 2022 observations:

My Spring offering included: CIS 201 (Computer Science 1; lecture, lab and recitation), CIS 410 (Computer Networks), CIS 325 (Data Analysis & Visualization), advisement of one student in internship, and two students for their senior project. All courses were offered in-person. I continued with the same procedure as in Fall to offer live zoom classes or recordings for students who couldn't attend the class due to Covid. I offered a new department course, CIS 325, that was designed by me. This new course will be one of the three courses for the Data Analysis track that will be initiated in Fall 2022. I was very happy with the way this course has turned out and got very positive feedback from students. I advised two students in their senior project, with the projects based on real life applications. One of the senior projects has been accepted for a presentation in American Association for Aerosol Research (AAAR) conference in October 2022. Advising 3 students (senior project and internship) was the equivalent of 1 course offering in terms of my time and effort and would recommend the department/university to figure out a way to give teaching credit for such efforts. Overall, I would classify Spring 2022 teaching as a success.

D. Academic Advising (including procedures used to evaluate advising)

This year I advised ~15 students. I set up a campaign on Starfish campus tool for students to make appointment for a one-on-one meeting with me for advising. I had in person and online appointments on Discord platform for Fall 2021 and Spring 2022 depending on the students' availability. If students did not attend the advising meeting, I followed up with email reminders. This effort resulted in near complete advising attendance prior to registration deadline. I evaluate their academic progress and spend additional time with those who are having academic performance issues. I inform students about availability of tutors and ask them to reach out to their faculty during their office hours for help. Overall, I maintain a "developmental" style of advising, where I try and listen to students and make them feel warm and welcome in my meetings and try to avoid being prescriptive, as much as possible.

I assess my advising with open-ended questions to students, such as, "is there anything else I can do to help you with academics", "do you feel like you need more help with planning your courses", "are you comfortable with the plan for your graduation", etc. I also talk to my colleagues, to see if they are doing something that might help me get better in my advising.

II. Mastery of Subject Matter and Scholarly Ability

A. Research and other scholarly/artistic activities (Indicate juried/refereed activities). Include grants proposed/awarded, articles and books submitted/accepted, presentations at professional meetings, performances, shows or productions directed.)

Peer Reviewed Publications:

1. Mondal M., Chaipitakporn C., Kumar V., Wangler B., Gurajala S., Dhaniyala S., Sur S., COVID-19 in New York state: Effects of demographics and air quality of infection and fatality. Published in Science of the Total Environment Volume 807, Part 1. <https://doi.org/10.1016/j.scitotenv.2021.150536>, Oct 2021.

Conference Presentations:

2. Dinushani Senarathna, Vijay Kumar, Shantanu Sur, Suresh Dhaniyala, Supraja Gurajala, Sumona Mondal, Evaluation and modeling of data from low-cost air quality sensors for accurate PM2.5 estimation. Air Sensors International Conference, May 2022.
3. Vijay Kumar, Dinushani Senarathna, Supraja Gurajala, William Olsen, Shantanu Sur, Sumona Mondal, Suresh Dhaniyala, Spectral analysis of low-cost sensor network data. Air Sensors International Conference, May 2022.
4. Brandon Beattie, Supraja Gurajala, Suresh Dhaniyala, Evolution of AAAR Topics over the Past 40 Years: An Automated Analysis. American Association for Aerosol Research (AAAR) conference, October 2022
5. Vijay Kumar, Dinushani Senarathna, Supraja Gurajala, William Olsen, Shantanu Sur, Sumona Mondal, Suresh Dhaniyala, Understanding the Source Components Captured by the Purple Air Network. American Association for Aerosol Research (AAAR) conference, October 2022

B. Awards and Honors

C. Professional meetings attended

1. Ph.D. Proposal Committee member - Application of time series and spatial analysis for accurate prediction of air quality from low-cost sensor data by Vijay Kumar, Clarkson University, Potsdam July 2022
2. E- RAPS (Research and Projects Showcase) Conference, Clarkson University, Potsdam, NY July 2022.

III. University Service

A. Administrative/committee assignments

1. Student Affairs Committee Member
2. Business Affairs Committee Member
3. Academic Programs and Curriculum Committee Member
4. Arts & Science Council Member
5. Arts & Science Curriculum Committee member
6. Faculty Senate Computer Science Delegate.
7. Computer Science Board of Advisors meeting

B. College-related public service (Include continuing education teaching by course, number enrolled, place, credit hours, consultancies, presentations at meetings)

C. Community service (membership, time volunteered)

1. Advisory committee member for St. Lawrence Health System Clinical and Rural Health Research Department's PCORI-DISRUPTS group.
2. Mentor for Friends of India Association of Clarkson University, 2021 - 2022

IV. Continuing Professional Growth

A. Professional memberships (Indicate leadership roles and term of office)

Association of Computer Machinery (ACM), member

B. Professional meetings attended

1. E- RAPS (Research and Projects Showcase) Conference, Clarkson University Potsdam, NY July 2021.
2. Ph.D. Proposal Committee member - Application of time series and spatial analysis for accurate prediction of air quality from low-cost sensor data by Vijay Kumar, Clarkson University, Potsdam July 2022


C. Courses, seminars, workshops or degrees completed

D. Describe future goals and plans

I'm leading the developing of data analytics track and related courses for eventual offering of a track for computer science majors. So far, I have developed three courses towards Data Analytics track and one course towards Computer Security track. My next goal is to get data analytics track approved for computer science majors. We are working on submitting the proposal in Fall 2022.

V. Other Information (Include other activities not covered but which you wish to note)

I'm co-advising two graduate students in Clarkson University with Prof. Sumona Mondal, Mathematics Department. My role is to advise the student on databases and machine learning. This effort requires ~ 3 hours of my time weekly. I was one of the committee members in the Ph.D. proposal for one of the students attended in July 2022



Signature Faculty Member

10/4/2022

Date