SDS students, faculty, and staff,

We highly encourage everyone to read through this newsletter in its entirety, as there are many reminders and useful pieces of information regarding the Spring 2021 semester.

Thank you all for your hard work throughout the fall semester. We hope you enjoy a well deserved Thanksgiving break.

As always, please reach out to Josh Hertel or Carly Mahedy if you have any questions.
The SDS Bootcamps reopen **TODAY (Monday, November 16th)**.

All three Bootcamps will open for students enrolled in our graduate programs (HIA or DSBA). These are free and optional training on Python, Statistics, and R.

They are intended to be introductory or review courses. Students who successfully complete the training will receive a digital badge.

More information can be found [here](#).

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**Spring 2021 DSBA Authorization Requests**

To receive prior authorization for any course you would like to register for this spring, please complete the below Google Form. **Authorizations will be given before registration begins on November 30.**

Have any questions? Contact **Carly Mahedy**.

[Complete The Form](#)

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**Spring 2021 Student Advising Sessions**

**DSBA Program**

*When: Tuesday, November 17th - 4:00 - 5:00 p.m. or Thursday, November 19th - 4:00 - 5:00 p.m.*

New and current DSBA students are invited to meet with Dr. SungJune Park(GPD), Carly Mahedy (Director of Student Services), and Joshua Hertel (Director) to discuss course scheduling, class options and registration for the spring semester.
Students can register for the November 17th session [HERE].

Students can register for the November 19th session [HERE].

**HIA Program**

*When: Thursday, November 19th, from 4:00 - 5:00 p.m.*

New and current HIA students are invited to meet with Dr. Yaorong Ge (GPD), Carly Mahedy (Director of Student Services), and Joshua Hertel (Director) to discuss course scheduling, class options and registration for the spring semester.

As a reminder, all students should have received a calendar invitation with the below zoom link information. Please accept the invitation if you plan on attending the group advising session.

**Topic:** HIA Group Advising Session  
**Time:** Nov 19, 2020 04:00 PM Eastern Time (US and Canada)

[Join Zoom Meeting](https://uncc.zoom.us/j/98923851894)  
**Meeting ID:** 989 2385 1894

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**SDS Spring Internship Q&A Session**

*When: TODAY, November 16, 4:00 - 5:00 p.m.*

All SDS students are invited to attend an internship panel discussion **TODAY,** from 4:00 - 5:00 p.m.

The primary purpose for this Q&A session is to walk DSBA and HIA students through the internship requirement for each program. We highly encourage students who are seeking an internship placement for the spring semester to attend this session.

Please register for the session below. We highly encourage students who plan to attend to add this event to their calendars with a copy of the zoom link.

[Apply Here](#)

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**New Special Topics Course Available: Mobility on Demand Systems: Data-Driven Analysis, Simulation, Visualization**
Mobility on Demand Systems: Data-Driven Analysis, Simulation, Visualization

ARCH 6306/6050, DSBA 6010, ITIS 8010/6010: Wednesdays 6pm-8:30pm, Taught Online

Dr. Dimitris Papanikolaou | dpapanik@uncc.edu | Urban Synergetics Lab | https://urbansynergeticslab.net

PREMISE
Widely considered as the future of sustainable transport with important implications in architecture and city planning, mobility on demand (MoD) systems utilize shared vehicles (bikes, scooters, cars, drones), parking spaces, and advanced information technology, allowing users to move from point to point on demand while cities reclaim urban land. Yet, opinions on on-demand mobility are controversial. Some studies claim that sharing enhances accessibility while reducing traffic, parking occupation, and dependence on private ownership. Others, however, show that vehicle-miles travelled and congestion increase due to empty trips for rebalancing, pickup, and electric charging. And while some studies advocate autonomous technologies for intelligently distributing fleet at stations, others favor behavioral incentives for that purpose. This seminar introduces advanced topics and fundamental questions of MoD systems focusing on how data-driven analysis, simulation, and visualization techniques in combination with systems thinking can be used to address scenario analysis questions such as: how would traffic, parking availability or carbon emissions change if a portion of private conventional vehicles were replaced by shared autonomous cabs? How might self-organization be induced and under what circumstances can it outperform centralized control?

OBJECTIVES
Provides foundational skills in data-driven analysis, simulation and visualization of MoD systems using System Dynamics (SD) and Agent-Based (AB) approaches. Students will learn: how to find, collect, process, and visualize urban mobility data; how to use data to model and simulate MoD systems; how to develop interactive web-based visualizations using state-of-the-art tools; how to formulate meaningful research/policy questions and how to use interactive simulations, experiments, and visualizations to explore scenarios for addressing them.

TOPICS
Performance and sustainability of MoD systems in relationship to land use and urban form; dynamic pricing, user behavior, and self-organization; Systems
Thinking, System Dynamics, Agent Based Systems, Data Visualization, Modeling and Simulation. Covers basic programming skills in JavaScript, D3.JS, P5.JS, LeafLet/Mapbox, NetLogo, and Vensim.

**METHOD**
Taught online, the seminar combines lectures, case studies, discussions, lab tutorials, in-class experiments, readings, and student presentations, and is organized into team assignments, a final project and a paper. For final projects, students will select a dataset and MoD system of their interest, identify a research or policy problem, develop a model, and use their model to address their problem. Alternatively, students may develop an interactive web-based visualization platform for exploring data for their selected system. Possible datasets include: trip data from bike sharing systems; taxi trip datasets; e-scooter GPS datasets; subway, bus or light rail trip datasets.

**PARTICIPATION**
Open to students in Planning, Data Science (SDS), Architecture, Software and Information Systems (SIS), and Computer Science (CS).

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**Fall 2020 Computational Design/Theory OnlineMini Lectures**

Faculty from across the campus (and a few from across North America) have been invited to present a series of nine online mini-lectures over the course of the semester. **All of the lectures will be at 11:15 on Tuesdays.**

These researchers are focused on a broad range of topics including architecture, visual analytics, design science, material computation, urbanism, human-computer interaction, creativity, connectivity, and computer vision.

Everyone is invited to join the lectures on Google Meet at: [meet.google.com/tyd-beui-otc](meet.google.com/tyd-beui-otc)

You can link to the google calendar [here.](#)

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**In Case You Missed It: Wednesday Seminar, A Day In The Life Of A Data Scientist**
Did you miss this Wednesday Seminar?

Head to the SDS Youtube channel to check out the recording, or watch it again if you enjoyed the session!

Don't forget to like and subscribe!

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Burtch Works Executive Recruiting recently posted a blog article related to job searching, specifically tailored for data scientists and analytics professionals.

Since this year has led to a lot of uncertainty (with more certainly on the way), they thought it might be helpful to compile ALL of their posts together in one place, to create a comprehensive guide through the job search process as well as developing COVID-19 trends, that you can reference regardless of whether you're looking for a new position, or simply want to be prepared.

Click the link below to learn more about the COVID-19 edition of the analytics job search process.

[Learn More Here](#)

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**SDS Fall Webinar Series: Data Analytics In The Intelligence Community**
When: Friday, November 20th, noon - 2:00 p.m.

On Friday, 20 November from Noon until 1:30 p.m., the School of Data Science will host a webinar on Data Analytics in the Intelligence Community. The general theme will center around advice to analysts on how to best package and present their work for senior level consumers of finished intelligence products in both the government and the private sector.

**The event will have two parts:**

The first portion of the webinar will consist of a three person panel and will last for 1.5 hours (12:00-13:30 ET). The panel will consist of Gen. Robert Ashley, Jr., Dr. Barbara Stevens and Mr. Brad Dryer of Bank of America. The Webinar will be moderated by a faculty member from the Intelligence Community Center of Academic Excellence (IC CAE) program at UNC-Charlotte.

For the panel presentation, each participant will have up to fifteen minutes to deliver an opening statement/presentation. The remainder of the event will be devoted to a group discussion and a question/answer session during which attendees may send questions to the moderator, who will compile and present them to the panel for response.

The second part of the webinar will focus on interactions with students in the IC CAE program and School of Data Science at UNC-Charlotte. The topic of this follow-on conversation will center on analytic careers in the US Intelligence Community as well as in the private sector and how students with an interest in becoming intelligence analysts can best prepare themselves to be competitive.

Register Here
SDS Selected As Finalist - NC Tech Awards

UNC Charlotte's School of Data Science was selected as a finalist for the **Public Sector Project Award**, by the NC Tech Association.

The winners of the NC Tech Awards will be announced during the **Virtual Beacons Award show**, on November 17 - 19, 2020. Register below and tune in to see if we've won!

[Read More Here](#)

SDS Executive Director Appointed To UNC Charlotte Strategic Planning Committee
SDS Executive Director, Doug Hague, was appointed to the 2021 Strategic Planning Committee, on behalf of Chancellor Gaber.

Learn how this diverse committee of faculty, staff, students and administrators will set the direction of the future of UNC Charlotte for years to come.

Read More Here

Mark Your Calendar

Wednesday Seminar Series: Student Organization Coffee Hour
When: November 18, 2020 - 4:00 PM to 5:00 PM

Join the SDS Student Organization for its first (virtual) coffee hour of the semester! Students can expect a short Q&A session with the board, followed by a fun game session.

Join the session using the information below:

Join Zoom Meeting
https://uncc.zoom.us/j/96857881372

Meeting ID: 968 5788 1372

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Rx Data Science Roundtable Series

When: November 17th - 18th

RxDataScience is hosting a Roundtable at Future Labs Live USA. Book your
free pass to the Conference and sign up to participate in a compelling dialogue of how to empower and support scientific research teams in the age of data-rich experimentation.

Register Here

APHI Innovation Series

When: November 19, 2020 - 11:30 AM to 12:30 PM

Join the kickoff event for APHI's new quarterly series that will bridge academia and public health practice. We expect the audience to include a mix of staff from the County Health and Social Services units, faculty, and students.

In this session, we will profile several evidence-based programs impacting our community and solicit suggestions for future sessions aligned with the county's public health priorities.

Register Here

Venture135 Healthtech Conference

When: November 16th - 19th, 2020

Venture135 is the premier venture conference focused on quality deal flow and innovation in the fintech, insurtech and healthtech ecosystems.
The conference is a full week of content, pitching companies and deal day meetings, kicking off on November 16th. The conference is offering a FREE discount for UNC Charlotte students and faculty. Please list Anita Sarkar as the contact to receive the discount code at checkout.

Register Here

Data Scientist, SAS

SAS is hiring a data scientist as part of the product management group working with its Research & Development sector.

Click the link below to discover the required qualifications, summary of duties and how to apply.

Apply Here

Research Assistantship at CAGIS
Center for Applied GIScience (CAGIS) at the University of North Carolina at Charlotte is recruiting a research assistant to work mainly on a recent project funded by Electric Power Research Institute.

Duties and Responsibilities:
1. Candidate will assist with GIS-based programming for spatial data processing, analysis, and modeling (with skills in Python scripting language,)
2. Candidate will assist with geodatabase design and development
3. Candidate will assist with cartographic mapping and geovisualization (desktop- and web-based)
4. Candidate is expected to document her/his work thoroughly
5. Candidate is expected to work closely with other members in Center for Applied GIScience under the supervision of Dr. Wenwu Tang

If you are interested in this position, please send Dr. Wenwu Tang the following: cover letter, latest CV/resume, and contact information of three referees. Additional details can be found here.

People Analytics Intern, Trane Technologies

Trane Technologies is looking for a People Analytics intern that has a passion with using data to drive insights, tell compelling stories, and deliver transformative results that directly impact 40,000 associates.

The ideal candidate would have a deep interest in people topics and a desire to ensure Trane Technologies is a place where every associate feels like they belong. This individual will partner closely with HR Business Partners and the Talent and Organizational Capabilities team to disrupt how our associates feel about key experiences at the company. The candidate needs the ability to work 15-20 hours per week.

Click the link below to discover the required qualifications, summary of duties and how to apply.
Summer 2021 Internship Opportunities: Hire-A-Niner

Data Analytics Engineer Internship - Allstate
Data Science Internship - Allstate
Data Delivery Product Manager Internship - Allstate
Data Visualization Internship - Lenovo

SDS Hire-A-Niner page

Join the Facebook Group

School of Data Science
UNC CHARLOTTE