



School of Data Science  
UNC CHARLOTTE

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SDS students,

Congratulations on successfully completing the first week of the spring 2021 semester. We have a very busy semester ahead of us, filled with many virtual conferences, seminars, networking opportunities and more. Please see below for some important updates from SDS.

As always, please reach out to [Josh Hertel](#) or [Carly Mahedy](#) if you have any questions.

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*Important*  
UPDATES

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**Registration Now Open: WiDS Charlotte**

# Conference



UNC Charlotte's Data School of Data Science is hosting the fourth annual **Women in Data Science Charlotte conference** along with Lowe's Inc. on March 4 - 5, 2021! In response to the current COVID-19 guidelines on large face-to-face gatherings, the conference will be held virtually.

We're thrilled to announce that **registration for the virtual event is officially open!**

WiDS Charlotte is free to attend and all genders are invited to witness outstanding women doing outstanding work!

[Register Now!](#)

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## NEW Spring 2021 Electives

**Enterprise Health Information Systems - 26667 - HCIP 6392 - 001:**  
**Mondays, 5:30 - 8:15 p.m., Main campus/Denny 220; Dr. Yaorong Ge**

**Prerequisites:** None

**Target Audience:** Any student interested in health-related applications with a CS, IT, or Data Science (DSBA, HIA) background can take this class

**Description:** Healthcare enterprises generate a significant amount of health-related data every day. They provide one of the main sources of data for practitioners of health informatics and analytics. Therefore, it is critically important that every health informatician has a good understanding of how various information systems in healthcare enterprises work together to support the complex process of patient care while collecting useful healthcare data throughout the process. In this course, we will study (a) the history, evolution,

state-of-art, and issues of healthcare information systems; (b) major information systems in a healthcare enterprise and how they are designed, tested, and installed; and (c) the evaluation and adoption of clinical, administrative, and specialty information technology applications for health organizations. Our discussions will center on three specific systems: the electronic health record system (EHR), the picture archiving and communication system (PACS), and the enterprise clinical data warehouse system.

### **DSBA 6010 001: Special Topics in DSBA; Dr. Mirsad Hadzikadic**

**Description:** This class will provide a gentle introduction to the world of **Complex Adaptive Systems to those who are interested in policy development and evaluation**. No programming experience is required.

Topics in the class include, but are not limited to:

- Systems thinking
- Complex Adaptive Systems
- Simulation and modeling techniques of Complex Adaptive Systems (agent-based modeling, network science, game theory, systems dynamics, chaos theory, fractals,)
- Applicability of Complex Adaptive Systems to Public Policy
- Examples of Public Policy (education, healthcare, urban planning, transportation, public health,)
- Hands on experience (project)

Learn more about the course [here](#).

### **DSAB 6156- Applied Machine Learning, CRN#: 24777, Asynchronous/Online; Dr. Siddharth Krishnan**

**Description:** This class offers a hands-on approach to machine learning and data science. The class discusses how to apply some fundamental methods like decision trees, bayesian classifiers, SVMs, random forests, and some advanced techniques like semi-supervised learning, neural networks, and deep learning on real-world datasets, including data preparation, model selection, and evaluation. We will learn a range of applications like social network analysis, natural language processing, sports analytics, time-series analytics, and automated machine learning. Apart from applying models, we will also discuss software development tools and industry best practices relevant to productionizing machine learning models, particularly how to develop scalable models that can be deployed on a cloud infrastructure. Our class will include guest lectures from data scientists from Bank of America and ESPN. Prior iterations of the class have resulted in successful IEEE research publications as well (read: [Extracting Cryptocurrency Price Movements From the Reddit Network Sentiment](#)).

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## **Important: DSBA Course Location Change**

The instruction method for the course "**Big Data Analytics for Competitive Advantage - 21629 - DSBA 6100 - U01**" has been changed to online/asynchronous. As a reminder, the instructor for this course will be [Dr. Anu Brookins](#).

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# SPS In The

## NEWS

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### New Academic Programs Respond to Job Market and Region's Needs



**THREE NEW DEGREE PROGRAMS &  
FIVE NEW GRADUATE CERTIFICATES  
COMING TO **UNC CHARLOTTE****



The School of Data Science is thrilled to announce the official approval of the Bachelor of Science in Data Science program by the U.S. Department of Education, making it the only program of its kind in North Carolina.

The undergraduate program is one of three new degree programs offered by UNC Charlotte, along with five new graduate certificate programs. Learn more here:

[\*\*Read More Here\*\*](#)

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# Mark Your CALENDAR

## Analytics and Big Data Society - Signature Series Panel Discussion



**When: Wednesday, February 3rd, noon - 1 p.m.**

Tech Talent is in demand – especially in Charlotte. Since 2010, the Charlotte Region has emerged as a leader in tech growth. As companies across all industries have scaled up their analytics, user experience and software development teams, the Charlotte Region has nearly doubled its tech talent pool.

To get a better view of the region’s tech talent growth, the City of Charlotte, Charlotte Regional Business Alliance and Slalom commissioned a deep-dive study of talent in the sector.

Join us on February 3rd as we cover study results and discuss strategies for continuing to grow the region’s tech scene.

### Speakers:

- Alyssa Brown, Business Recruitment Project Manager, City of Charlotte
- Emily Cantrell, Talent Development Senior Manager, City of Charlotte
- Rob Horton, Chief Marketing Officer, Charlotte Regional Business Alliance
- Chuck McShane, SVP Research, Charlotte Regional Business Alliance

[Register Here](#)

## SDS Wednesday Seminar: US Army Research Lab Information Session

An aerial view of a university campus with a green overlay. The text 'WEDNESDAY SEMINAR SERIES' is prominently displayed in white and green. Below it, the name and title of Dr. Stephen Russell are listed. To the right, the UNC Charlotte School of Data Science logo is shown, along with details about the information session: 'Information session: Information Sciences Division of the US Army Research Laboratory, February 10th, 2021'. A URL for more information is provided: 'datascience.uncc.edu/upcoming-events'. At the bottom right, the DEVCOM Army Research Laboratory logo is displayed.

AN ONLINE EVENT

# WEDNESDAY SEMINAR SERIES

Dr. Stephen Russell  
INFORMATION SCIENCES DIVISION CHIEF  
US COMBAT CAPABILITIES DEVELOPMENT  
COMMAND ARMY RESEARCH LABORATORY

UNC CHARLOTTE  
School of Data Science

Information session:  
Information Sciences Division  
of the US Army Research  
Laboratory  
February 10th, 2021

For more information, please visit:  
[datascience.uncc.edu/upcoming-events](https://datascience.uncc.edu/upcoming-events)

Sponsored by:

DEVCOM  
ARMY RESEARCH  
LABORATORY

**When: Wednesday, February 10th, 4 - 5 p.m.**

Join UNC Charlotte's School of Data Science for an information session with the Information Sciences Division of the U.S. Army Research Lab, featuring Dr. Stephen Russel

[Register Here](#)

## Data Science For The Public Good Young Scholars Program



Data Science for the Public Good Youth Program is seeking applications for graduate fellows and undergraduate interns for Summer 2021.

**Located in:** Arlington, VA & Charlottesville, VA

**Application Deadline: February 15, 2021**

Learn More and Apply Here

## Wednesday Seminar: Sustainable and Affordable Mobility For the World

An event card for a Wednesday Seminar Series. The background is an aerial view of a university campus. The text 'AN ONLINE EVENT' is in a small box at the top. The main title 'WEDNESDAY SEMINAR SERIES' is in large white letters on a green background. A photo of Dr. Christopher Borroni-Bird is shown with his name and title 'FOUNDER AFREECAR LLC' below it. The UNC Charlotte School of Data Science logo is in the top right. The event title 'Sustainable and Affordable Mobility for ALL the World's People' and date 'February 17th, 2021' are in the middle right. The website 'datascience.uncc.edu/upcoming-events' is at the bottom right.

AN ONLINE EVENT

# WEDNESDAY SEMINAR SERIES

Dr. Christopher Borroni-Bird  
FOUNDER  
AFREECAR LLC

UNC CHARLOTTE  
School of Data Science

Sustainable and Affordable Mobility for ALL the World's People

February 17th, 2021

For more information, please visit:  
[datascience.uncc.edu/upcoming-events](https://datascience.uncc.edu/upcoming-events)

**When: Wednesday, February 17th, 6 - 7 p.m.**

Join UNC Charlotte's School of Data Science and Dr. Christopher Borroni-Bird for a conversation on sustainable and affordable mobility for all the world's people.

Register Here

## Securing a Successful Internship

An event card for a Wednesday Seminar Series. The background is an aerial view of a university campus. The text 'AN ONLINE EVENT' is in a small box at the top. The main title 'WEDNESDAY SEMINAR SERIES' is in large white letters on a green background. The UNC Charlotte School of Data Science logo is in the top right. The event title 'Securing A Successful Internship' and date 'February 24th, 2021' are in the middle right. The website 'datascience.uncc.edu/upcoming-events' is at the bottom right.

AN ONLINE EVENT

# WEDNESDAY SEMINAR SERIES

UNC CHARLOTTE  
School of Data Science

Securing A Successful Internship

February 24th, 2021

For more information, please visit:  
[datascience.uncc.edu/upcoming-events](https://datascience.uncc.edu/upcoming-events)

The internship is a critical requirement for both the HIA and DSBA master's degrees. The SDS has scheduled a special workshop to assist students in

preparing for the internship, and to coach students in seeking and securing an internship.

For those of you planning on a summer 2021 internship, we encourage you to use the link below to fill out the Google Form and submit your current resume. We will share this folder with industry partners throughout the spring semester.

[Register Here](#)

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## WiDS Charlotte Virtual Conference



**When: March 4th - 5th, 2021**

In response to the current COVID-19 restrictions on large face-to-face gatherings, the 4th annual Women in Data Science (WiDS) Charlotte Conference will be held virtually on **March 4th-5th, 2021**.

With the flexibility of a virtual environment, WiDS Charlotte 2021 will be held over multiple days (March 4th - 5th), granting the opportunity to host an even larger number of attendees than our traditional conference space could support.

[Register Here](#)

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## AMMI Conference

**AMMI**

**Analytics and Machine-Learning for Maternal-Health Interventions**

**When: April 15 – 16, 2021**

Join Carolina Health Informatics Program's (CHIP) virtual Analytics and Machine-Learning in Maternal-Health Intervention (AMMI) conference on April 15 – 16, 2021.

The AMMI conference will provide a unique and much needed platform for multi-disciplinary researchers from maternal health, machine learning, informatics, and medical imaging on topics related to prenatal health.

This innovative virtual symposium will include keynote speakers, panel discussions, student poster sessions, and networking opportunities with the leading industry and academic researchers in machine learning and maternal health.

[Learn More and Register Here](#)

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# Featured Job OPPORTUNITIES

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## Resources for the Job/Internship Search: Resume Advice for Data Scientists



Chris Black, Manager for Talent Acquisition with LendingTree joined us in December of 2020 to share advice on how to craft an effective resume. This session was targeted at data science applicants.

You can rewatch the hour-long presentation [here](#).

[Watch The Video](#)

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## Tax Guard - Associate Data Scientist



Tax Guard is revolutionizing how tax information is used by businesses to empower their confident decision making. The Data Science team designs, develops, deploys, and maintains predictive features and models using advanced statistical and machine learning methods to support Tax Guard's suite of small business lending products.

Data Science provides customer support and expertise in use of Tax Guard data for the small business lending industry.

[Learn More and Apply Here](#)

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## Data Science Accelerator Internship



The Data Analytics Accelerator Internship provides early career talent, such as college and graduate students, as well as those who are transitioning into the field, with an opportunity to sharpen their leadership, technical, and business skills through a 10-week working and learning experience across Data & Analytics teams at Truist.

The deadline to apply is **Friday, February 12, 2021**.

[Learn More and Apply Here](#)

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## Real World Data Science and Innovation Internship



At Novo Nordisk, interns will have the opportunity to kick-start their careers by working closely with experienced industry professionals and gaining valuable, hands-on, full-time work experience. For ten weeks, beginning **June 7th**, interns will be immersed in the environment of a global pharmaceutical company and contribute to the line of business by providing sustainable and meaningful project work.

Our internship program also includes instructor led trainings, career presentations by senior leadership, and a guided mentorship program to offer professional and personal development.

[Learn More and Apply Here](#)

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## National Institute of Allergy and Infectious Diseases (NIAID) Emerging Leaders in Data Science Fellowship



National Institute of Allergy and Infectious Diseases (NIAID) conducts and supports basic and applied research to better understand, treat, and ultimately prevent infectious, immunologic, and allergic diseases.

For more than 60 years, NIAID research has led to new therapies, vaccines, diagnostic tests, and other technologies that have improved the health of

millions of people in the United States and around the world. NIAID is one of the 27 Institutes and Centers of the National Institutes of Health (NIH).

The deadline to apply is **February 12, 2021** at 11:59 PM EST

[Apply Here](#)

## Fellowship Opportunities - ORISE at the CDC



ORISE Research Opportunities at the  
Centers for Disease Control and Prevention  
(CDC)

### About the Program

The Centers for Disease Control and Prevention (CDC) Research Participation Program is managed by the Oak Ridge Institute for Science and Education (ORISE) under an agreement between the CDC and the U.S. Department of Energy (DOE). The CDC collaborates to create the expertise, information, and tools that people and communities need to protect their health – through health promotion; prevention of disease, injury and disability; and preparedness for new health threats. The CDC ORISE programs are considered a valuable human capital and workforce development tool, which provide educational experiences and training in public health as a means to introduce highly motivated participants to potential public health careers."

### Fellowship Opportunities:

- [Human Pathogenic Parasites Fellowship](#)  
CDC | Atlanta, GA | Full-Time | **DEADLINE: February 16, 2021**
- [Epidemiology Fellowship](#)  
CDC | Atlanta, GA | Full-Time | **DEADLINE: March 2, 2021**
- [Applied Epidemiology of Influenza Fellowship](#)  
CDC | Atlanta, GA | Full-Time | **DEADLINE: March 2, 2021**
- [Epidemiology and Information Science Fellowship](#)  
CDC | Atlanta, GA | Full-Time | **DEADLINE: March 2, 2021**
- [Public Health Fellowship NEW!](#)  
CDC | Atlanta, GA | Full-Time | **DEADLINE: March 12, 2021**
- [Program Evaluation Fellowship NEW!](#)

CDC | Atlanta, GA | Full-Time | **DEADLINE: March 15, 2021**

- **Disease Surveillance Fellowship NEW!**

CDC | Atlanta, GA | Full-Time | **DEADLINE: March 15, 2021**

- **HIV Treatment and Prevention Fellowship NEW!**

CDC | Atlanta, GA | Full-Time | **DEADLINE: March 17, 2021**

- **Applied Research and Translation and Data Informatics Fellowship**

CDC | Atlanta, GA | Full-Time | **DEADLINE: March 31, 2021**

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## Career Opportunities with Zoominfo



The mission of ZoomInfo powered by DiscoverOrg's Global Inclusion & Diversity Initiative (GIDI) is to create a sense of belonging for all employees. GIDI takes an active role in focusing on the equity, advancement and empowerment of underrepresented communities.

Zoominfo believe's in the people who work for us, and the things that we can accomplish when we push ourselves both individually and collectively.

[Visit the Website](#)

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[SDS Hire-A-Niner page](#)

[Join the Facebook Group](#)



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