UNIVERSITY OF NORTH CAROLINA CHARLOTTE | SCHOOL OF DATA SCIENCE

Updates from the Director

As we say farewell to March and welcome in April, I want to share a sincere thanks to all of you who participated in the Women in Data Science Conference. We are still tallying final numbers but we estimate there were more than 450 attendees this year. We trust that you found it a productive and engaging day. Next up we have Analytics Frontiers on April 16th. We already released a batch of discounted student tickets, we hope to be able to release a second batch closer to the conference date. Keep a close eye on your email!

Registration for Summer and Fall 2024 opens on Monday, April 1st. There is a wealth of information in your inbox and in this newsletter. You can find the full list of undergraduate and graduate special topics courses HERE. For the *undergraduates*, our stellar advisor Deanna Rella sent out a detailed email regarding courses, authorizations, and next week's advisor availability. For *graduate students,* all upper-level courses will require an authorization from Carly Mahedy or me. Information on advising and registration can be found on the **HIA** and **DSBA** websites.

Josh

View available classes

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Call for Content: *Have a story to share, an event to highlight, or a job posting? Please feel to share it with us @* ***sds-communications@charlotte.edu***

Important!

TO READ THE ENTIRE NEWSLETTER CLICK "VIEW ENTIRE MESSAGE" AT THE BOTTOM OF THIS EMAIL FOR JOB OPPORTUNITIES!

Remember that registration opens on April 1! Please refer to your emails from Deanna and Carly containing more information. Do not delay signing up for classes.

Additional resources for ALL students include Peer Hub! Peer Hub will be hosting several events, passing out shirts (free t-shirts), and helping students sign up for classes!

Some events The Peer Hub wants to highlight are: throughout the week we will give out shirts and registration resources to students who are registered for classes. Additionally, we will provide students with a virtual registration lab through Peer Hub on April 5.

This program previously was only for undergraduate students, but this year will incorporate resources/items for graduating students and graduate students by partnering with Peer Hub, Center For Graduate Life and Learning, and Alumni Affairs.

More Info

New SDS Officers

- President - **Vishaal Sai Devisetty**
- Vice President - **Hiranya Vaishnavi Bandi**
- Treasurer - **Sonali Choudhary**
- Senator - **Ha'Sheem Brunt**
- Secretary - **Aryaman Kachroo**
- Marketing Officer - **Manasi Suryavanshi**
- New student Liason - **Brian Dooley**
- HIA Representative - **Sushma Akula**

Mark Your CALENDAR

Important Dates

- **April 1-** Registration for Summer 2024 and Fall 2024 begins
- **April 16-** <u>Analytics Frontiers</u>
- **April 29-** Last day of classes
- **April 30-** Reading Day
- **May 1-** Final Examinations begin

Below is a list of upcoming campus events for all students and faculty. These are opportunities to learn and network! We hope you can participate and encourage your students to engage.

Monday SDS Seminars

All SDS students are invited to engage in the Monday session. This is your opportunity to connect with companies and industry professionals in person! Sign up and join in the conversation to build your professional networks.

Monday, April 1st Seminar: An Introduction to Contract Work: Pros and Cons of Staffing Agencies

Abstract: In the Data Science and Analytics domain, various entities, such as Talent Agencies, Recruitment Firms, Headhunters, and Consulting Firms, play a significant role. Recognizable brands like Optmi, Signature Consultants, Randstad, and Tek Partners are among them. These firms primarily focus on sourcing and screening talent for their industry partners while also serving talent by facilitating connections with hiring managers, offering a potential "foot in the door." Additionally, some staffing firms extend sponsorship opportunities, particularly beneficial for international students. Contract work arranged by these firms provides flexibility for both employers and temporary employees. In today's seminar, five distinguished alumni will share their insights into working with recruitment firms, discussing the advantages and disadvantages of such partnerships. **Location: Dubois Center, Room 602**

Sign Up Here

Monday, April 8th Seminar: Implementing Generative AI In The Financial Sector: Strategies, Challenges, And Opportunities

Abstract: This presentation aims to illuminate the journey of integrating Generative AI (GEN AI) technologies within the financial industry, a sector poised on the brink of digital transformation. As financial entities increasingly turn to GEN AI for its unparalleled data generation and analysis capabilities, the implementation process presents a unique set of challenges and opportunities. We will explore the strategic pathways for deploying GEN AI in various financial operations, including personalized financial advice, predictive analytics for market trends, and the automation of complex financial processes. **Location: Dubois Center, Room 602**

Register Here

HIA Seminars: The Informatics Research Seminar Series

UNC Charlotte and the School of Data Science join Duke University's weekly Health Informatics Seminar. It's part of a collaborative series across North Carolina universities, delving into diverse aspects of Health Informatics. These virtual seminars are on Wednesdays at 4 PM EST. Upcoming topics:

- **April 3, 2024-** Increasing Access to Addiction Care Through Telemedicine, Sue Feldman, RN, MEd, Ph.D., FACMI, ECU

- **April 10, 2024-** AI-assisted pre-screening for Fragile X-associated Disorders, Arezoo Movaghar, PhD, WFU

Other Events and Workshops

Graduate and Professional Student Appreciation Week: April 1st -5th, 2024

Since 1993, Graduate and Professional Student Appreciation Week, initiated by the National Association of Graduate-Professional Students, honors and supports graduate and professional students nationwide. UNC Charlotte and the SDS will mark the occasion with events and dining discounts for graduate students. **Explore details and register here.** Some featured events include:

- Graduate Assistant Appreciation Brunch on 4/2/24
- Botanical Garden Walk on 4/2/24
- Gentle Yoga on 4/3/24
- Wellness Open House on 4/4/24
- Potluck karaoke on 4/5/24

TECHTalks: Interning/Volunteering with Nonprofits, April 3, 2024, 4 - 5:15 pm- Woodward 335

Have you considered a career with a non-profit? Several non-profits will be on Campus in Woodward on Wednesday, April 3rd, including **Apparo, E2D, Dottie Rose**, and SIM, to discuss career and internship opportunities.

Register Here

AFC Registration Open

Sponsored by SDS, the Analytics Frontiers Conference is the largest data science conference in the region, attracting over 500 thought leaders, scientists, and business executives from various industries and academia.

Hack CLT: Workshop Time- April 5th-7th

Workshops are a valuable way to spread information about students. Whether it is from research opportunities to new innovative technologies students can utilize please feel free to have a presentation about something you deem useful to the Students of UNC Charlotte CCI

Experience ORISE Virtual Career Fair:

Opportunities in Life, Health & Medical Sciences, April 10, 2024 | 12 p.m. to 2 p.m. ET

Register Here

Campus Resources and Policies

If you are an undergraduate student who is planning on attending another institution this summer, please keep in mind that you must submit an Undergraduate Petition. This can be located in Banner under your Student Services/Student Accounts tab and by looking under Student Records. The petition type that should be selected is "transient study". Once the course is completed and a grade has been assigned, students are responsible for requesting an official transcript be sent to the Charlotte Registrar's Office to be updated on their Charlotte transcript.

CCI Meet-Up and Student Organizations

Clubs & Organizations let you start to build networks that you can rely upon for years, and often they provide opportunities to practice the skills you're developing for the marketplace. Open to all students- graduate and undergraduate.

- **Association for Computing Machinery (ACM)** Tuesdays, 4 - 5 pm, Woodward 106

- **Charlotte Human-Centered Computing Research Group** Fridays, 9 - 10 am, Woodward 236/309
- **Association for Computing Machinery - Women (ACMW)** Open Lounge, Mondays, Wednesdays, 4 - 5:30 pm Woodward 209
- **GirlsWhoCode Charlotte AI Research** Mondays, bi-weekly, 7 - 8 pm, Woodward 155

Data Science and Health Informatics In The
NEWS

These are stories collected from a variety of newsletters and websites:

From Data Science Current- A monthly newsletter from the Data Science Council of America

National identity stereotypes through generative AI- *FlowingData,* **March 20, 2024:**

For Rest of World, Victoria Turk breaks down bias in generative AI in the context of national identity. Bias in AI image generators is a tough problem to fix. After all, the uniformity in their output is largely down to the fundamental way in which these tools work.

DSC

The AI systems look for patterns in the data on which they're trained, often discarding outliers in favor of producing a result that stays closer to dominant trends.

From American Medical Informatics Association's (AMIA) Informatics SmartBrief Newsletter

Applying complexity theory gives insight into the power of chain-of-thought prompts for LLMs

AMIA
INFORMATICS PROFESSIONALS. LEADING THE WAY.

- Chain-of-thought prompting, a technique that incorporates step-by-step reasoning into large language models, improves their accuracy, according to research that used computational complexity theory. Researchers realized the prompting technique had potential when they were training transformer networks and discovered that using a parallel architecture

created constraints that could be mitigated by allowing the model to reuse intermediate steps. Full Story: **Quanta Magazine** (3/21)

What role will neuroscience play as AI evolves?

- The intersection of neuroscience and AI continues to evolve and elicit differing opinions, according to an editorial in Nature Machine Intelligence that recaps panelists' disparate comments at the recent COSYNE conference and contemplates the role of the Cognitive and Computational Neuroscience Conference that first met seven years ago. "The upcoming generation of scientists will need to possess fluency in both domains, making interdisciplinary programs such as Neuromatch and conferences such as COSYNE and CNN indispensable," asserts the editorial. Full Story: **Nature** (3/22)

TRAIN to focus on AI standards

- A consortium of healthcare leaders has created the Trustworthy & Responsible AI Network to improve the delivery of care while cutting costs and maximizing efficiency by developing and evaluating standards for the safe use of AI. The consortium plans to exchange best practices, establish an online clinical AI registration portal, and create a federated national outcomes registry. "It is imperative that we work together and share tools and capabilities that enable systematic AI evaluation, surveillance, and algorithm vigilance for the safe, effective, and equitable use of AI in health care," said Peter Embí, an AMIA Fellow. Full Story: **Health IT Analytics** (3/25)

Other Newsletters and Resources:

Medium- Medium is an open-source online publishing platform where anyone can publish and share insightful perspectives and useful knowledge. It has a wide-ranging offering of topics including: Programming, Data Science, Technology, Self Improvement, Machine Learning, etc. In addition to their website, they also publish a daily e-newsletter.

Data Science Community Newsletter- One more resource to keep in the know for new tools, events, job postings, and developing trends in data science.

SouthBDHub- The monthly newsletter lists news, events, and opportunities in data science, analytics, engineering, and policy. A selection of stories and announcements are below.

Looking for more internships and job postings? Log into Hire-a-Niner or use their convenient School of Data Science aggregator.

Below you will find a current listing of postings that have been shared with the SDS team or posted on the **Career Center's Hire-a-Niner site**. We encourage you not only to apply for specific postings but also to explore and familiarize yourself with the companies and organizations actively recruiting UNC Charlotte and SDS students. In addition to these postings, we strongly encourage you to build your professional network through the Monday SDS Professional Seminars, CCI Business Partner's Program, and various networking events scheduled throughout the semester.

Featured
JOBS AND INTERNSHIPS

Oak Ridge Institute for Science and Education (ORISE Summer Internship and Fellowships

ORISE connects the most talented and diverse college students, recent graduates, postdocs, and faculty to STEM internship and fellowship programs closely aligned with the interests of a variety of research facilities, including those managed by the **U.S. Department of Energy** and other federal agencies. These STEM internship and fellowship programs are key to the recruitment and preparation of the next generation of our nation's scientific workforce. Find opportunities via **Zintellect**, a searchable database of research and non-research internships and fellowships administered by ORISE and its managing contractor, ORAU.

Browse hundreds of paid STEM internships, fellowships, and research opportunities at national laboratories and government agencies across the United States

- **Director, Translational Health Engineering Research Center (THERC)-**

Health Research Institute/Translational Health Engineering Research Center (THERC) Grand Rapids, MI

- **Senior Research Scientist/Engineer-** Health Research Institute/Translational Health Engineering Research Center (THERC)

- **Quantitative Analytics Specialist-** Charlotte, Full time

Internships

- **Digital Transformation/Data Science Student Employee,** EPRI | Charlotte, NC
- **Entry-Level Data Scientist,** ON24 | Remote
- **Research Scientist - 2024 Summer Internship,** Motorola Solutions · New Jersey
- **Data Science Summer Internship 2025, Naval** Nuclear Laboratory (FMP) · West Mifflin, PA
- **Neurodiversity Internship Program -** Analytics & Data Science (Summer 2024), Liberty Mutual Insurance · Boston, MA
- **Chello Internship Program 2024,** Chello · Charlotte, NC
- **GLOBAL RESEARCH SUMMER ANALYST PROGRAM -** 2025 Internship, Bank of America

Jobs

- **Data Scientist, Spot |** Charlotte, NC
- **Data Scientist Intermediate - Economic Forecasting, USAA |** Charlotte, NC
- **Data Scientist, Specialist, Vanguard |** Charlotte, NC
- **AWS Data Lead -DICE,** Charlotte NC (Hybrid 3 days a week)
- **APPLICATIONS ANALYST II, Santee Cooper**
- **IT Leader, Digital and Data Analytics, Corning Incorporated** · Charlotte, NC
- **Data Scientist I (Intermediate): Applied ML/GenAI/NLP,** USAA · Charlotte, NC
- **Lead Product Data Analyst, HR Systems,** Wells Fargo · Charlotte, NC

Full Job List

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