Updates from the Director

Greetings all-

Welcome to the end of the fall 2023 semester. First and foremost we want to send our heartfelt congratulations to our December SDS graduates, the BS in Data Science, MS in Health Informatics, MS In Data Science and Business Analytics, and the graduate certificates. This weekend marks the culmination of your hard work and sacrifice. We look forward to celebrating you all and wish you all the best in your future endeavors! Please stay in touch with the School and University, and keep us updated as to your progress.

-Josh

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!

Mark Your CALENDAR

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.
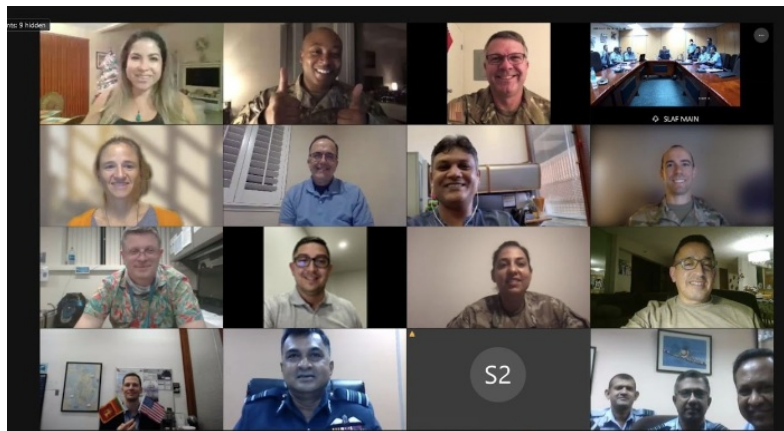
DSBA & HIAN Orientation / Town Hall Event

Monday, January 8, 2024 | Virtual

This event is for all new and continuing DSBA & HIAN graduate students. Please join us for helpful information on the upcoming semester, events, resources, and tips from current students on how to be successful. More information and a Zoom link are available **here**.

New Graduate Student Orientation

Thursday, January 4, 2024 | Virtual

The Graduate School and **Reynolds Center for Graduate Life and Learning (CGLL)** will host a virtual orientation for new students on Thursday, January 4, 2023. Get up to date with all of the campus resources and policies for new students. You can register for the Zoom link **HERE**. The CGLL has also set up a full **onboarding portal** to help you set up your email, find housing, identify financing options, etc.

Welcome Reception for New Graduate Students

Thursday, January 11, 2023 | 4:30-6:30 PM EDT | Student Union 340 D

The perfect introduction for newcomers and a fantastic opportunity for everyone to explore the wealth of resources available around campus! Come meet new grad students, CGLL staff, and campus partners who are here to support you. Plus there will be food, drinks, free giveaways, and music! All new grad students are welcome (including part-time and distance education).

Register Here

Student
RESOURCES

Digital learning:
We Can Get You Where You're Going

Are you where you want to be? Start today to enhance your informatics career and add value to your work and profession. Check out our comprehensive digital learning options. Earn CME credit with AMIA education. It's current, convenient, and comprehensive regardless of where you are in your career. **Explore your educational options with AMIA.**

Laboratory for Analytic Sciences: Now Recruiting Students

Summer Conference on Applied Data Science
June 3 – July 26, 2024

The application for SCADS 2024 is now open to students. Student applicants should be currently enrolled in a master's or Ph.D. program. There are no requirements around coursework or specific degree programs. We welcome student applicants from all disciplines interested in the SCADS grand challenge. Students are expected to work 40 hours/week and will receive a competitive stipend of $10,000. Students who do not already live in the local area (within 35 miles of campus) will also receive a stipend to support local accommodations and travel. **Register for an information session.** The deadline to apply is Friday, January 12, 2024, at 11:59 p.m. ET.

Data Science and Health Informatics In The
NEWS

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

From Informatics SmartBrief/AMIA

European leaders approve draft AI safety law

The European Commission, European Parliament, and the European Council of Ministers approved draft regulations regarding the safe use and development of artificial intelligence. If the AI Act receives final approval, technology companies doing business in the EU would be required to test their AI products and disclose certain information, AI models deemed to pose "systemic risk" would be subject to additional requirements, and AI that performs certain tasks, such as classifying people based on skin color, would be banned. Full Story: **Deutsche Welle (Germany)** (12/9), **The Washington Post** (12/8)

ONC debuts USCDI+ platform

The Office of the National Coordinator's USCDI+ platform for organizing and building datasets is now online and includes upgraded collection and review tools for comparing, analyzing, filtering, harmonizing, and exporting data. The ONC is also accepting submissions of data elements and comments for case reporting and laboratory data exchange using USCDI+. Full Story: **Health IT Buzz (Office of the National Coordinator for Health IT)** (12/7)

Joint Commission offers voluntary data use certification

The Joint Commission's new Responsible Use of Health Data Certification provides guidance for integrating, using, and transferring de-identified clinical data. The voluntary certification program validates that health systems have "robust policies and procedures ... to help protect, govern and accountably use secondary data," says Joint Commission President and CEO Jonathan Perlin. Full Story: **HealthLeaders Media** (12/7)

New NIH director discusses priorities

NIH Director Monica Bertagnolli's priorities include accelerating the translation of laboratory discoveries into therapeutics that "improve the circumstances of real people," ensuring that affected patient populations are adequately represented in clinical trials and supporting research that improves access to health care. Bertagnolli also noted that smaller health centers, universities and communities should have greater access to research grants. Full Story: **Science (tiered subscription model)** (12/6)

Google launches new large language model

Google's new Gemini large language model encompasses Gemini Nano for offline use on Android devices, Gemini Pro for AI services and the Bard chatbot, and Gemini Ultra for data centers and enterprise applications. Google CEO Sundar Pichai says Gemini will eventually be integrated across Google products including the Chrome browser, the Google search engine and ads. Full Story: **The Verge** (12/6)

Experts urge skepticism about AI study findings

Studies have found that machine learning for image classification picks up artifacts in blank or meaningless image regions, which may have led to misleading claims in research papers. "This is a widespread issue impacting many communities beginning to adopt machine-learning methods," said computer scientist Sayash Kapoor, who recently co-led a study on data leakage and reproducibility of AI studies. Full Story: **Nature** (12/5)

From Data Science Current

Millions of new materials discovered with deep learning

We share the discovery of 2.2 million new crystals – equivalent to nearly 800 years' worth of knowledge. We introduce Graph Networks for Materials Exploration (GNoME), our new deep-learning tool that dramatically increases the speed and efficiency of discovery by predicting the stability of new materials. DEEPMIND

The 6 next big things in AI and data for 2023

These innovations are putting AI to work right now, in areas ranging from customer service to video production to software engineering. One year ago, the appearance of OpenAI's ChatGPT set off an AI arms race among Big Tech companies . FLIPBOARD

From SouthBDHub- The monthly newsletter contains a listing of news, events, and opportunities in data science, analytics, engineering, and policy. A selection of stories and announcements are below. Subscribe to their Listserv

All About the Executive Order on Artificial Intelligence with White House

OSTP | December 14 at 1 PM ET

The White House Office of Science and Technology Policy (OSTP) will be holding a briefing for the artificial intelligence research community to provide an overview of the Biden administration's newly released executive order (EO) on AI and its potential to support and accelerate AI research while ensuring the safety and trustworthiness of AI systems. In addition to a short summary of the EO's actions, there will be time set aside for interactive question and answer with the research community. **Learn more on their website.**

Wikimedia Research Fund

Applications are due December 15

The Research Fund provides support to individuals, groups, and organizations with an interest in conducting research on or about Wikimedia projects. We encourage submissions from across research disciplines including but not limited to the humanities, social sciences, computer science, education, and law. The team prioritizes supporting applicants who have limited access to research funding, are in regions of the world where the Wikimedia research community has less representation, are proposing work in coordination or collaboration with Wikimedia affiliates, and/or are proposing work that has potential for direct, positive impact on their local communities or the global Wikimedia communities. **Learn more on their website.**

OpenAI Preparedness Challenge

Submissions due December 31
To support the safety of highly capable AI systems, OpenAI is developing their approach to catastrophic risk preparedness, including building a Preparedness team and launching a challenge. Their team will offer $25,000 each in API credits to up to 10 top submissions, publish novel ideas and entries, and look for candidates for Preparedness from among the top contenders in this challenge. Responses will be accepted on a rolling basis through the end of the year. **Learn more on their website.**

Call for Volunteers: 2024 UVA Data + Society Challenge

The purpose of the competition is to engage high school students in data science and to raise awareness and interest in pursuing data science as a course of study and a career path. The theme of the challenge is "Applying Data Science to Solve Societal Problems." Students will work in teams engaging with a fair lending data science challenge. The competition will open for entries in January 2024 and close in April 2024. The team is looking for virtual mentors with experience in Python. **Learn more on their website.**

Featured Job
OPPORTUNITIES

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

ABoVE Airborne Campaign Data Fusion Intern at NASA

Greenbelt, MD | Applications due February 16, 2024

The Arctic-Boreal Vulnerability Experiment (ABoVE) campaign seeks a highly motivated and organized individual working towards an undergraduate or graduate degree in an environmental/earth science discipline (or related field) to complete a data fusion project using at least two or more of the airborne (lidar, radar, hyperspectral) and optical imagery data sets available from the recent airborne surveys. Possible projects should address some of the science questions and objectives for ABoVE related to environmental changes in northern regions, and can be tailored to the research interests of the successful candidate. The successful candidate will have excellent interpersonal and communication skills, expertise with data manipulation, and familiarity with the ABoVE campaign. Ideally, the student would be familiar with GIS and remote sensing software, such as ESRI/QGIS, and/or python or Google Earth Engine. **Learn more on their website.**

Machine Learning Internships at Hugging Face | Remote

Hugging Face is on a journey to advance good Machine Learning and make it more accessible. Along the way, the team contributes to the development of technology for the better. They have built the fastest-growing, open-source, library of pre-trained models in the world. With more than 500K+ models and 250K+ stars on GitHub, over 15.000 companies are using HF technology in production, including leading AI organizations such as Google, Elastic, Salesforce, Algolia, and Grammarly. The team is hiring multiple machine learning interns in areas such as computer vision, data processing, quantization, and more. **Learn more on their website.**

2024 Ida Lawrence Research Summer Internship Program: ETS Research

Application Deadline: February 1, 2024

If you are a creative and innovative individual who wants to help shape the future of learning and assessment, we encourage you to apply for the 2024 Ida Lawrence Research Summer Internship program. Your application will be considered for both Research-sponsored internships and externally-funded intern positions — both of which involve working on a research project with ETS researchers. The ETS Research division conducts rigorous foundational and applied research on the most critical issues facing education and the workforce. Central to ETS's legacy of global leadership in learning and assessment, ETS Research is dedicated to advancing the science and practice of measurement, driving innovation in digital assessment, learning and teaching, and advancing equity of opportunity for all learners.

Apply

Summer 2024 SGX3 Internship

Austin, TX | Applications due January 31, 2024

The SGX3's Workforce Development team will offer a summer program aimed at graduate students. Eligible applicants include graduate students majoring in computer science or computer engineering (or related fields). The student will be funded by SGX3 to join the TACC science gateway team for the summer, working on live, impactful gateways. **Learn more on their website.**

Full-Time Positions

- **Machine Learning Engineer, Responsible AI, Grammarly-** North Carolina, United States
- **Principal Generative AI Enterprise Architect, Honeywell-** Charlotte, NC
- **Data Analytics (Alteryx) - W2 (1017629), The Judge Group-** Charlotte, NC
- **GB/GM AML Data Analytics & Reporting - Quantitative Analyst, Bank of America-** Charlotte, NC
- **Sr Data Governance Analyst, Moody's Corporation-** Charlotte, NC

Internships

- **Data Science/Business Analytics, Intern, ilbarco Veeder-Root-** Greensboro, NC
- **2024 Summer Intern: Business Analyst in Data Center Operations, Spectrum-** Charlotte, NC
- **TRADING OPERATIONS ANALYST INTERN (SUMMER 2024 START), Optiver-** Chicago, Ill
- **SUMMER INTERN 2024 INFORMATION SESSION: DATA ANALYST, AvidXchange-** Charlotte, NC

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GROUPME

SLACK CHANNEL

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