CHARLOTTE
SCHOOL OF DATA SCIENCE

FACULTY
NEWSLETTER

I hope you are all enjoying this semester so far! Thank you to all who came to our faculty meeting on September 15th. It was great to see everyone gathered together, and we are looking forward to our SDS Faculty Social Hour on October 13th (check your calendar invite for details). Snacks, beer, and wine will be provided! Our marketing team will also be sending out a Call for Proposals for our Analytics Frontiers Conference this week, and our Women in Data Science Conference early next week. If you or someone you know is interested in presenting, be sure to check the deadlines when the emails come out so we can consider you as a breakout session speaker!

-Doug

SCHOOL OF DATA SCIENCE

IMPORTANT
UPDATES

Liyue Fan wins the NSF Career Award

A Utility Aware Framework for Privately Sharing Individual Level Data
October 1, 2022 - September 30, 2027
Total Intended Award Amount: $574,877.00

Abstract: Individual level data can be collected and shared to benefit a wide range of research studies and exploratory applications. However, most privacy protecting data sharing solutions focus on well-defined aggregate analysis and do not take into account the application's utility goals. Furthermore, current solutions may be limited in addressing the application-specific privacy needs, resulting in overly strong or inadequate privacy protection.

This project develops novel privacy protecting data sharing solutions by incorporating an application's privacy needs and utility goals in one optimization framework. **More info**

Monday SDS Professional Seminars

- October 2, 2023: **'Getting' Started with Git Hub**- Colby T. Ford, Ph.D., Principal Consultant, Tuple, LLC. and VP of Technology @ Amissa
- October 9, 2023: **How to get and keep a data scientist job in Model Risk Management-** Alex Shenkar, Senior Model Validation Officer II, SVP@Truist (Virtual)
- October 16, 2023: **An Automotive Aftermarket Story** - Data Science @Torqata, Andrew Brooks, Head of Data Science
- October 23rd, 2023: Fall Break/ No Classes
- October 30th, 2023: **A Day in the Life of a Healthcare Data Scientist,** Michael Korvink, Principal Data Scientist @Premier

Connect with the NC Health Informatics Research Community: HI Research Seminars

The Informatics Research Seminar Series is sponsored by Duke University in collaboration with the UNC-CH, NCCU, UNC Charlotte, ECU, and WFU. This series explores key areas in Health Informatics and includes research results, an overview of programs of research, basic, applied, and evaluative projects, as well as research from varied epistemological stances. The virtual seminars are held on *Wednesdays @4:00 pm.*

- <u>October 4, 2023</u>: Informatics Lessons for Pragmatic Trials in Older Adults: The PREVENTABLE Experience, Nicholas Pajewski, PhD Wake Forest Univ
- <u>October 11, 2023:</u> Climate Change: The Heat Impact, Ashley Ward, PhD, Duke Univ.
- <u>October 18, 2023</u>: Interoperability and Reproducibility of Multimorbidities in EHRs: Pathways to Precision Medicine through Machine Learning and AI, Yaomin Xu, PhD, UNC-CH
- <u>October 25, 2023</u>: Supervised Deep Learning for Medical Time Series Analysis, Xiang Zhang, PhD, UNC Charlotte

*All sessions are virtual. More information and a link to the virtual sessions can be found <u>**here**</u>!*

AWS Academy Educator Enablement Half-day Session

October 6th, 12:00 - 4:00pm (virtual)

AWS is seeking educators to learn more about the AWS Academy program and product roadmap updates, provide feedback to the AWS Academy leadership team, share their experiences, and network with other educators. This session will cover technical deep dives, demos, customer examples, and live Q&A with AWS experts. There will be 30 minute sessions in the agenda for guest speakers (educators like you!) to present an AWS project showcase. The idea is to learn from other educators, get to know the challenges, ideas, use cases on how to explore the resources that AWS and AWS Academy have to offer to the students. The educator presenting an AWS project will receive a special gift from AWS! Registration is free! **Link to follow.**

Phi Beta Kappa Lecture: Selective Forces Shaping the Evolution of Intelligence

Monday, October 15, at 5:00 in McKnight Hall

On behalf of the new chapter of **<u>Phi Beta Kappa</u>** on campus- this is the first time hosting a Visiting Scholar. Please join us for the inaugural P. Kay Holekamp, University Distinguished Professor of Integrative Biology at Michigan State University, will share her research in Kenya on the evolution of intelligence among hyena populations.

The Career Consultant Training Program: UNC

Career Center

Wednesday, October 25th | 12:00 - 4:00 PM | Career Center Classroom (Atkins 150)

The Career Consultant Training Program provides faculty and staff with the key strategies and techniques to work with UNC Charlotte students on their career development and management in a consulting role. Learn about common approaches, techniques, and strategies used by career development professionals at UNC Charlotte and across the nation from experts in the field. This program is intended to also provide campus colleagues with professional development to add to their careers and additional training updates to continue their skill development in assisting students. Lunch is provided; space is limited to 35 participants.

- Log into the Learning & Development Portal with your NinerNet credentials
- Click on "Events Calendar"
- Go to October 25th and click on Career Consultant Training Program

REGISTER HERE

Women in Statistics and Data Science Conference

Bellevue, WA | October 25 - 27

The 2023 Women in Statistics and Data Science Conference aims to bring together hundreds of statistical practitioners and data scientists. The conference will highlight the achievements and career interests of women in statistics and data science. Senior, mid-level, and junior stars representing industrial, academic, and government communities will unite to present their life's work and share their perspectives on the role of women in today's statistics and data science fields.

LEARN MORE

2023 ADSA Annual Meeting

San Antonio, TX | October 24 - 27

The ADSA Annual Meeting convenes data science methodologists and domain researchers from all disciplines and career stages to share breakthroughs and state-of-the-art approaches in data science research and education, with a strong emphasis on responsible data science. If you are interested in volunteering during the meeting, ADSA is **seeking volunteers to serve as poster judges**. It will only require about an hour of time and make a meaningful impact on the community. **Learn more on their website.**

Important Dates

Find the full **SDS Calendar of Events** on the program website

- October 2, 2023: Spring 2024 Schedule of Classes available on the web
- October 2, 2023: Undergraduate Student registration appointment times available
- October 13, 2023: Unsatisfactory Mid-Term Grades due for Fall 2023 by noon
- October 17, 2023: Unsatisfactory Mid-Term Grade notices emailed to students for Fall 2023
- October 17, 2023: **HIAN Group Advising** ·4:00 – 5:00pm- Virtual
- October 18, 2023: **DSBA Group Advising #1,** 12:00 – 1:00pm- Virtual
- October 18, 2023: **DSBA Group Advising #2**, 4:00 – 5:00pm- Virtual
- October 19, 2023: Last day to change Grade Type (P/NC or Audit) Policy Information
- October 19, 2023: Last day to withdraw from course(s)
- October 19, 2023: Last day to Change or Opt-Out of Grade Replacement
- October 23, 2023 to October 24, 2023: Student Recess - No Classes
- October 30, 2023: Registration for Spring 2024 Opens

Student RESOURCES

NC Datathon: Fill Out the Interest Form!

NORTH CAROLINA EDUCATION DATATHON

THURSDAY, FEBRUARY 8, 2024

FRIDAY, FEBRUARY 9, 2024

The NC Datathon aims to harness the power of technology and data to create inventive answers for tackling intricate issues. This occasion unites teams led by university students from various parts of North Carolina and tasks them to find a solution for an educational challenge using diverse data sources. The event spans

two days (February 8-February 9, 2024) and encompasses keynote speakers, team collaboration time, project presentations, evaluation, and the announcement of winners. Please click **HERE** for more information!

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

FDA releases IT strategy for 2024-2027
The FDA's Information Technology Strategy for fiscal 2024 to 2027 focuses on modernization, intra-agency integration, data sharing, new technologies and investment in employees. Six goals include creating the shared OneFDA IT ecosystem, modernizing IT infrastructure, improving enterprise services, enabling the broad sharing of data, analyzing benefits and risks associated with AI and other emerging technologies, and building a team of experts, leaders and employees. Full Story: Regulatory Focus (9/22

Minn. developing disease outbreak prediction tools
Health informatics professor R. Adams Dudley is co-leading a $17 million project in Minnesota to develop metrics that can be used to predict disease outbreak severity based on human behavior. Researchers will survey state residents to understand their daily activities and interactions, tap the new Minnesota EHR Consortium, which links clinic and hospital medical records to identify trends, and test new predictive tools by running simulations on COVID-19 pandemic patterns. Full Story: Star Tribune (Minneapolis) (9/24)

Genomics alliance adds 10 Driver Projects
Ten international genomic data initiatives have been named the Global Alliance for Genomics and Health's "Driver Projects" to enable greater use of genomic data standards in clinical care and biomedical research. "The 10 new GA4GH Driver Projects will foster ... engagement between research, medicine and standards development," said Heidi Rehm, a GA4GH vice chair and chief genomics officer at Massachusetts General Hospital. Full Story: Healthcare Innovation (9/21)

NLM digitizes historically significant biomedical journals
From 2014 to 2019, the National Library of Medicine digitized back issues of hundreds of significant biomedical journals and their citations. Since completing that project, the NLM has digitized back issues under the Creative Commons Public Domain Mark, including The Homoeopathic Physician, The Dental Register, The Dental Reporter, the Buffalo Medical Journal and the Atlanta Journal-Record of Medicine. Full Story: National Library of Medicine (9/20)

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