2022 SDSU Data Science Symposium Schedule								
Monday, February 7								
Time	Pasque 255	Dakota Room 250 A/C	Phesant					
12:30 pm - 5:00 pm	Check-in/Registration (Location : Prairie Lounge)							
1:00 -5:00 pm	Workshop 1 Omics Data Science Ali Rahnavard and Himel Mallick	Workshop 2 Microsoft Power BI Negassi Tesfay	Workshop 3 Blockchain Analytics Cuneyt Akcora					
	Banquet (Performing Art Center)							
6:00 - 8:30 pm	Social time (Cash bar)							
6:30 - 8:00 pm	Dinner							
0.00 0.00 p	Welcome							
7:15 - 7:30 pm	Dr. Kurt Cogswell - Head of Mathematics and Statistics Department							
7:30 - 8:30 pm	Keynote Dissecting Blockchain Analytics: What We Can Learn from Topology and Geometry of Blockchain Transaction Graphs Dr. Yulia R. Gel, University of Texas Dallas							

		Tuesday, Februar	y 8				
Time	Dakota Room 250 A/C	Pheasant Room 253 A/B	Herold Crest 253 C	Pasque 255			
7:30 - noon		Check-in / Luggage Check (Location: Volstorff Lounge)					
7:45 - 8:15 am	Breakfast (Location: Volstorff B)						
8:30-8:45 am	Opening Session Welcome and Introduction: President Barry Dunn (Location: Volstorff B)						
8:45-9:45 am	Keynote: Data Science before, during, (and after!) a global pandemic Speaker: Dr. Justin Smith (Location: Volstorff B)						
	Session 1: Finance	Session 2: Precision agriculture	Session 3: Cancer Genomics				
	Chair: Thomas B SDSU	Chair: Dr. Hossein Moradi - SDSU	Chair: Dr. Tobias Meissner - AVERA	Session 4 Unsupervised learning methods Chair: Dr. Shuchismita Sarkar			
	The Role of Data Science in Fraud Detection Michael Lim – TransUnion	A vision guidance system on agricultural sprayers reduces operator stress	Understanding the multi-scale heterogeneity in cancer genomes	Conditional mixture modeling and model-based			
	Modeling Consumer Risk: A Comparison of	Travis Burgers – Raven Industries	Anu Amallraja – Avera Cancer Institute	clustering			
9:50-10:50 am	Logistic Regression, Scorecard, and Machine		16 Year Life History and Genomic Evolution of an ER+ HER2-	Yang Wang – College of Charleston			
	Learning Models	Dataset for Precision Agriculture Practices	Breast Cancer	Model-based clustering of directed weighted			
	Sommer West – Capital Services	Jiyul Chang- SDSU	Bing Xu-Avera Cancer Institute	networks			
			Patient-specific analysis and visualization of cancer pathways	Volodymyr Melnykov – The University Alabama			
			Priya Swaminathan – Avera Cancer Institute				
10:50-11:00 am		Notworking brook / F					
10:50-11:00 am	Session 5: Finance		Exhibitors (Location: Volstorff A) Session 7: Genomics	Session 8: Unsupervised learning methods			
	Chair: Thomas B SDSU	Session 6: Data Science and Startups Chair: TBD	Chair: Xijin Ge - SDSU	Chair: Dr. Shuchismita Sarkar			
			Decoding infectious disease omics data: COVID-19 case				
	Equipment Finance Credit Risk Modeling - A	Decentralized Data Access and Analysis for	study	Studying contributions of variables to			
	Case Study in Creative Model Development	Cybersecurity Usecases	Ali Rahnavard – George Washington University	classification			
11:00 am-12:00 noon	& Nimble Data Engineering Ed Krueger,	Craig Jorgensen - Customer Success Manager Query Al	Tweedie mixed models for spatial transcriptomics and	Yana Melnykov – The University of Alabama Semi-supervised clustering of time-dependent			
	Landon Thomson, and Josh- Channel	Al	digital pathology	categorical sequences with application to			
	Partners Finance		Himel Mallick – Merck Research Labratories	discovering education-based life patterns			
				Yingying Zhang – University of South Alabama			
	Discussion						
12:00 - 1:00 pm			ch (Volstorff B)				
1:00 - 2:00 pm	Poster session Student poster competition (Location: Volstorff A)						
1:00 - 2:25 pm			Fair/ Recruiting				
	0.1.000		(Location: Volstorff A)				
	Session 9: Methods Chair: T. B. zoom session	Session 10: Applications Chair: TBD	Session 11: The epidemiology of COVID-19 Chair: Emma Spors	Session 12: Forensic Statistics Chair: C. Saunders (SDSU) and A. Carriquiry			
	Advances in Explanation-friendly Scorecard	Linguistic Cues in Disaster Relief Crowdfunding	Chair. Limina Spors	(lowa state un)			
	Technology	Kari Sandouka- Dordt College	Development and Evaluation of a Rural SARS-Cov-2	Topological data analysis of dynamic Ethereum			
	Gerald Fahner – FICO	Factors of Significance for Graduating at a Private	Hospital Admissions Predictive Model	token networks			
2:30 - 3:25 pm	Forecasting During Uncertain Times	College	Kayli Rageth– Avera Health	Yuzhou Chen - Princeton University Forensic Handwriting Identification using			
	Forecasting During Uncertain Times Lance Cundy Federal Reserve Bank	Jennifer Schon, Northwestern College Impacts on Student-Athletes' GPA at Northwestern	Data and Epidemiology: The Need to Educate the Public Bonny Specker – South Dakota State University	Random Forests and Score-based Likelihood			
		College	, .,	Ratios			
		Jennifer Schon, Northwestern College		Danica Ommen - Iowa State Universty Madeline			
				Q. Johnson, Boston Scientific			
3:25 - 3:30 pm			Break				
		tudent speed session	Session 14: Tools for Data Science	Session 16: Methods			
		hair: TBD	Chair: Dr. Zeng - Dakota State University(DSU)	Chair: C. Saunders (SDSU) and A. Carrquiry (Iowa			
	On statistical estimates of the inverted Kumaraswamy Distribution under adaptive type-I progressive hybrid censoring - Qingqing Li and Yuhlong Lio - USD		Deploying Live Dashboard Data API using USDA Data APIs	state University)			
		eglated Research: A Review and Agenda for Moving	to inform farmers/producers Indira Fuyal and Paurakh Paudel - DSU	How Do You Define a Circle? Perception and			
3:30 - 4:25 pm		ndrew Behrens - DSU	Fine-tuning Transformer-based Natural Language	Computer Vision Diagnostics			
		esponse surface to characterize a black-box algorithm	Generation Algorithms for USDA Grains Reports	Susan Vanderplas - University of Nebraska-			
	_	algorithm - Cami Fuglsby- SDSU	Winston Zeng - University of Arizona	Lincoln			
	-	and hotspots using multinomial logistic regression Minot State University	Towards Long Term Impact of DL Models in Medical Imaging				
	Znuoyu tang -	initial state officeraty	Kruttika Sutrave and Rajesh Godasu- DSU				
	Closing Session						
4:30 - 5:00 pm	Thomas Brandenburger (Location: Volstorff B)						
	Winners of poster announcement						

			Tuesday, Feb 8, 2022			
	Poster presentations - Volstorff A					
No	First name	Last name	Title			
1	Loknath	Ambati	A comparative analysis of topic modeling Techniques for short text data			
2	Andrew *	Behrens	Generative Adversarial Networks in Tumor-Reglated Research: A Review and Agenda for Moving Forward			
3	Dylan	Borchert	An alpha-based prescreening methodology for a common but unknown source likelihood ratio with different subpopulation structures			
4	Cami*	Fuglsby	Development of strategies for estimating a response surface to characterize a black-box algorithm in terms of a white-box algorithm			
5	Indira	Fuyal	Deploying Live Dashboard Data using USDA Data APIs to inform farmers/producers			
6	Laxmi*	Gorugantu	Detection of prostate cancer using machine learning techniques: An exploratory study			
7	Janean	Hanka	Atypicality Based Measures for the Identification of Counterfeit Aspirin			
8	Jason	Hasse	Multivariate Statistics Applied to Additive Manufacturing of Inconel			
9	Hoang	Nguyen	Predicting US wildfire possibility and severity			
10	Kosman	Rajapaksha	Wald Type Tests with the Wrong Dispersion Matrix			
11	Kari	Sandouka	Antecedents of Success for Proficiency in Core Skills			
12	Sadixa	Sanjel	Generalized Estimating Equations (GEE) Approach for Clustered Binary Data with Application to COVID-19 Treatment			
13	Andrew	Identifying Subpopulations of a Hierarchical Structured Data using a Semi-Supervised Mixture ew Simpson Modeling Approach				
14	Emma	Spors	Standardized incidence ratio of the COVID-19 pandemic in a midwestern state			
15	Zhuoyu*	Yang	Predicting automobile accident severity and hotspots using multinomial logistic regression			
16	Winston	Zeng	Fine-tuning Transformer-based Natural Language Generation Algorithms for USDA Grains Reports for Farmers, Producers, and Small Businesses			

^{*} Students giving 10 min oral presentation from 3:30-4:30 in Session 7 in addition to poster presentation