### Monday, February 10, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Pasque Room (255)</th>
<th>Dakota Room A/C (250)</th>
<th>Pheasant Room</th>
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</thead>
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| 12:30-5:00 p.m. | Check-in/Registration, Pravati Lounge | WORKSHOP I  
Data Visualization  
Dr. Xijin Ge |  |
| 1:00-5:00 p.m. | WORKSHOP II  
Web Crawling  
Peter Claussen | WORKSHOP III  
R Library Creation Fundamentals  
Riaz Khan |  |
| 1:00-5:00 p.m. | Job Fair/Recruiting! Exhibitors, Campanile Room & Hobo Day Gallery A&B |  |  |
| 6:00-6:30 p.m. | Banquet, Performing Arts Center |  |  |
| 6:30-8:00 p.m. | Dinner |  |  |
| 7:15-7:30 p.m. | Welcome, Dr. Bruce Berdanier, Dean of the Jerome J. Lohr College of Engineering |  |  |
| 7:30-8:30 p.m. | Panel Discussion: Perspectives on Data Science in Organizations, Charles Henderson, Capital Services; Valerie Baes, Sanford Research; Dhiraj Sharan, Query AI |  |  |

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<th>Pheasant Room A/B (253)</th>
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<th>Campanile &amp; Hobo Day Gallery (A&amp;B)</th>
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<tr>
<td>7:30 a.m.-noon</td>
<td>Check-in/Luggage Check, Volstorff Lounge</td>
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<td>7:45-8:20 a.m.</td>
<td>Breakfast, Volstorff B</td>
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<td>8:20-8:30 a.m.</td>
<td>Opening Session: Welcome and Introduction, Dr. Kurt Cogswell, Department Head, Volstorff B</td>
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<td>8:30-9:15 a.m.</td>
<td>Keynote: Machine Learning and the Evaluation of Forensic Evidence, Dr. Alicia Carriquiry, Volstorff B</td>
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| 9:30-10:30 a.m. | SESSION 1 | Tools  
Chair: Tobey Eich  
SAS Viya tour  
Melodie Rush, SAS Institute | SESSION 2 | Opportunities for Improving Health through Big Data & Data Science  
Chair: Arielle Selja, Sanford  
Data Science Infrastructure in the Cloud for Sanford Imaginetics  
Marat Sican, Sanford Research  
Data Driven Healthcare:  
The Sanford Data Collaborative  
Arielle Selja, Sanford Research | SESSION 3 | Precision Agriculture  
Chair: Paul Mag, SDSU  
Multi-Resolution Approximations for Precision Agriculture  
Paul Mag, SDSU  
Towards Deep Learning for Weed Detection  
Deep Convolutional Neural Networks Architecture for Plant Seedling Classification  
Martinson Ofori, Dakota State |  |
| 10:30-11:00 a.m. | Networking Break | Exhibitors, Volstorff II |  |  |
| noon-1:00 p.m. | Lunch, Volstorff B |  |  |  |
| 1:00-2:55 p.m. | Poster Session | Student Poster Competition, Volstorff B |  |  |
| 1:00-2:55 p.m. | Job Fair/Recruiting! Exhibitors, Volstorff B |  |  |  |
| 2:30-3:25 p.m. | SESSION 7 | Application  
Chair: Speed Session by Grad Students  
Rajesh Godasu - DSU  
Lawrence Segheno - SDSU  
Josh Eason - CreightonU  
Ganga Baisali - DSU  
Ayorinde Oguniyola - SDSU  
Omar Sharif - USD  
Jupiter Notebook & Python by Data Scientists  
David Zeng, Dakota State  
Introduction to Git and GitHub  
Seema Bhandari, Dakota State | SESSION 8 | Tools  
Chair: David Zeng  
Jupiter Notebook & Python by Data Scientists  
David Zeng, Dakota State  
Introduction to Git and GitHub  
Seema Bhandari, Dakota State | SESSION 9 | Forecasting  
Chair: Aly Pelliter  
Data Science in the Life Insurance Industry  
Gary Raffield, Securian Financial  
Using Prophet Methodology for Forecasting  
Aly Pelliter, Polaris  
Multi-Step Forecast of Implied Volatility  
Surface Using Deep Learning  
Zhiquany Wang, SDSU |  |
| 3:25-3:30 p.m. | Break |  |  |  |
| 3:30-4:30 p.m. | SESSION 12 | Finance  
Chair: Thomas Brandenburger  
Bias In, Bias Out! How to Fight Biases  
In AI and Create Trust  
Gerald Fahren [FCO] | SESSION 13 | Data Science & Startups  
Chair: Samantha Nystrom  
Get Answers and Insights  
From Your Data  
Dhiraj Sharan, Query AI | SESSION 14 | Methods  
Chair: Tye Klimert  
A Patient Centered Approach to IT Enabled Diabetes Self-Management:  
The Case of Saudi Arabia  
Hasan Abaymi, Dakota State  
A Dense-Inception Network for Medical Image Classifications  
James Bold, Dakota State  
Exploring Task Decomposition with Ensemble Approach Using Reinforcement Learning  
Raiha Naurat, University of South Dakota |  |
| 4:30-5:00 p.m. | Closing Session: Thomas Brandenburger, Volstorff B | Poster Winners Announced |  |  |