

2019 SDSU Data Science Symposium Schedule

Monday, February 04

| Time | Pasque 255 | Dakota Room 250 A/C |
|--------------------|---|---|
| 12:30 pm - 5:00 pm | Check-in/Registration (Location: Foyer) | |
| 1:00 - 5:00 pm | Workshop - Tidyverse <i>Tidyverse: R packages for data science</i> Dr. Adam Sullivan | Workshop - Deep Learning <i>Deep Learning with Python</i> Dr. David Zeng |
| 1:00 - 5:00 pm | Job Fair/ Recruiting Exhibitors (Campanile & Hobo Day Gallery (A & B)) | |
| | Banquet (Performing Art Center) | |
| 6:00 - 6:30 pm | Social time (Cash bar) | |
| 6:30 - 8:00 pm | Dinner | |
| 7:15 - 7:30 pm | Welcome | |
| 7:30 - 8:30 pm | Keynote: Kate Bischoff <i>Data and Analytics – What you don't know can HELP you!</i> | |

Tuesday, February 05

| Time | Pasque 255 | Pheasant Room 253 A/B | Dakota Room 250 A/C |
|---------------------|---|---|--|
| 7:30 - noon | Check-in / Luggage Check (Location: Volstorff Lounge) | | |
| 7:45 - 8:30 am | Breakfast (Location: Volstorff B) | | |
| 8:30-8:40 am | Opening Session Welcome and Introduction : Vice president Daniel Scholl (Location: Volstorff B) | | |
| 8:45-9:45 am | Keynote: The Next Great Era: The Age of Artificial Intelligence Clay Campbell - Unify Consulting (Location: Volstorff B) | | |
| 10:00-10:50 am | <p>Session 1: Tools Chair: Mahtab Hajebi</p> <p><i>An Exploration of Multiple Tools for Creating Reproducible Research</i> Adam Sullivan - Brown University <i>minque: An R Package for Analyzing Various Linear Mixed Models</i> Jixiang Wu - SDSU</p> | <p>Session 2: Healthcare Chair: Eric Bae</p> <p><i>Application of Transfer Learning Techniques for Medical Image Classification</i> James Boit - DSU <i>Identification of Potential Markets – The Sanford Opportunity Score</i> Clark Casarella - Sanford Health</p> | <p>Session 3: Finance Chair: Kai Zhang</p> <p><i>FICO® Scores Through the Economic Cycle and Understanding Consumer Sensitivities to Economic Fluctuations</i> Gerald Fahner - Fico</p> |
| 10:50-11:00 am | Networking break / Exhibitors (Location: Volstorff A) | | |
| 11:00 am-12:00 noon | <p>Session 4: Tools Chair: Mahzabin Khan</p> <p><i>Approximate Bayesian decision-making with complex data: analysis of forensic fingerprint data</i> Cedric Neumann - SDSU</p> | <p>Session 5: Healthcare Chair: Paul May</p> <p><i>Leveraging data for the who, what, why, and how of population health</i> Emily Griese & Doug Nowak- Sanford Health <i>Predicting unplanned medical visits among patients with diabetes using machine learning</i> Arielle Selya - Sanford Health</p> | <p>Session 6: Other Chair: Philip Ato Sam</p> <p><i>Recommendation Systems and Personalization Methods and Use Cases</i> Ally Pelletier - Star Tribune <i>Application of Data Science in Churn Analysis</i> Deepak Sanjel - MNSU</p> |
| 12:00 - 1:00 pm | Lunch (Volstorff B) and Poster session (Location: Volstorff A) | | |
| 1:00 - 1:50 pm | <p>Session 7: Methods Chair: Lawrence Sethor</p> <p><i>Multi-Linear Algebraic Eigen decompositions and Their Application in Data Science</i> Randy Hoover - SDSMT <i>Dimension Reduction for Big Data</i> Hossein Moradi - SDSU</p> | <p>Session 8: Healthcare Chair: Samantha Nystrom</p> <p><i>Challenges in modeling cognition and dementia</i> Terry Therneau - Mayo Clinic</p> | <p>Session 9: Finance Chair: Md Mahi Uddin</p> <p><i>Effective Model Validation</i> Lance Cundy - Fed Minneapolis <i>Data Science Ops: Working Excellently</i> Thomas Cleberg - Mutual of Omaha</p> |
| 2:00 - 3:00 pm | Poster session Student poster competition (Location: Volstorff A) | | |
| 2:00 - 3:25 pm | Job Fair/ Recruiting Exhibitors (Location: Volstorff B) | | |
| 3:30 - 4:30 pm | <p>Session 10: Methods Chair: JJ Hejna</p> <p><i>A survey on parametrical modeling under Progressive type-I interval Censoring</i> Yuhlong Lio - USD <i>Neural Shrubs: Using neural networks to improve decision trees</i> Kyle Caudle - SDSMT</p> | <p>Session 11: Other Chair: Nikita Medvedev</p> <p><i>Survival Analysis Methods to Predict Loss Rates in Credit Card Portfolios</i> Landon Thompson - United Health <i>The Fit of Data Visualization Design for Knowledge Activation</i> Kari Sandouka - DSU</p> | <p>Session 12: Finance Chair: Seth Anhir-Donkor</p> <p><i>Dos and Don'ts of Data Science</i> Ryan Burton - Capital Services <i>Data Use in the Measurement of Systemic Risk in Financial Systems</i> Katherine Kime - UNK</p> |
| 4:30 - 5:00 pm | Closing Session Thomas Brandenburger (Location: Volstorff B) Winners of poster announcement | | |

| Poster presenters | | Title |
|-------------------|-----------|--|
| First name | Last name | |
| Abdelbaset | Abdalla | <i>Finite Mixture Regression Models for Stratified Sampling Design</i> |
| Girma | Ayana | <i>Genomic selection for grain yield and quality traits in oat (Avena sativa L)</i> |
| Audrey | Bunge | <i>Cluster Analysis of Spotify Users</i> |
| Kevin R. | Callies | <i>Employee Acceptance of Employer Control Over BYOD Devices</i> |
| krishna | Ghimire | <i>Evaluation of root system architecture (RSA) of oat (Avena sativa L.) genotypes</i> |
| Austin | Hanson | <i>Stability in Anomaly Detection for Keystroke Dynamics: Exploring the Possibility with Plateau Regression of an Individual's Keystroke Dynamics Changing Over Time</i> |
| Riaz | Khan | <i>ROCit- An R package for Performance Assessment of Binary Classifier with Visualization</i> |
| Kyle | Lifferth | <i>Predicting charge off using text analysis</i> |
| Tareq | Nasrallah | <i>Mining Twitter to Assess the Perceptions of the Opioid Crisis</i> |
| Dheeman | Saha | <i>Impact of nitrogen rates and landscape position on bacterial taxa and metabolic pathways during switchgrass production</i> |
| Kari | Sandouka | <i>Interactive Visualizations: A Literature Review</i> |
| Prakriti | Sharma | <i>High-Throughput Phenotyping of Oat Breeding Nurseries Using Unmanned Aerial Systems</i> |
| Sebastian | Sowada | <i>Utilizing Uplift Modeling to Develop a Credit Line Increase Strategy</i> |
| Haidong | Wang | <i>Face re-identification in real-time large time series data</i> |
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