2019 Midwest Big Data Summer School: Program At a Glance

Memorial Union, Iowa State University   **May 20-23, 2019**   **http://mbds.cs.iastate.edu**

All sessions are in Great Room, Memorial Union.

May 20

8:00 - 8:30 a.m.	Registration
8:30 - 8:45 a.m.	Welcome: **Sarah M Nusser** (Vice President of Research, Iowa State University)
8:45 - 8:50 a.m.	Logistics: Hridesh Rajan, Computer Science, Iowa State University
8:50 - 9:40 a.m.	Invited Talk: **Rajesh Parekh**, Engineering Director, **Google**
9:40 - 10:30 a.m.	Invited Talk: **Adam Hecktman**, Director of Technology & Civic Innovation Chicago, **Microsoft**
10:30 - 10:45 a.m.	Break
10:45 - 12:15 p.m.	Introduction to Statistics by **Dan Nettleton, Statistics**, ISU
12:15 - 1:30 p.m.	**Networking Lunch**
1:30 - 3:15 p.m.	Introduction to Python - Part I by **Steven M. Kautz, Computer Science**, ISU
3:15 - 3:30 p.m.	Break
3:30 - 5:00 p.m.	Introduction to Python - Part II by Steven M. Kautz, Computer Science, ISU

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May 21

8:00 - 8:30 a.m.	Registration
8:30 - 10:30 a.m.	Introduction to R - Part I by **Jarad Niemi, Statistics**, ISU
10:30 - 10:45 a.m.	Break
10:45 - 12:15 p.m.	Introduction to R - Part II by Jarad Niemi, Statistics, ISU
12:15 - 1:30 p.m.	Invited Talk: **Julia Wolfe**, Visual journalist, FiveThirtyEight Lunch
1:30 - 3:15 p.m.	Visualization - Part I by Jarad Niemi, Statistics, ISU
3:15 - 3:30 p.m.	Break
3:30 - 5:00 p.m.	Visualization - Part II by Jarad Niemi, Statistics, ISU

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May 22

8:00 - 8:30 a.m.	Registration
8:30 - 10:30 a.m.	Applied Machine Learning - Part I by **Jin Tian, Computer Science**, ISU
10:30 - 10:45 a.m.	Break
10:45 - 12:15 p.m.	Applied Machine Learning - Part II by Jin Tian, Computer Science, ISU
12:15 - 1:30 p.m.	Invited Talk: **Srinivas Sridharan**, Data Scientist, Corteva Lunch
1:30 - 3:15 p.m.	Scalable Tools - Part I by **Robert Dyer, Computer Science, BGSU**
3:15 - 3:30 p.m.	Break
3:30 - 5:00 p.m.	Scalable Tools - Part II by Robert Dyer, BGSU

May 23

	Foundations	**Digital Agriculture**	**Software Analytics**	**Big Data**	**Public Good**	**SAS**
8:00 - 8:30 a.m.	Registration					
Track location	South ballroom	Oakroom	Cardinal room	Sun room	Campanile	Gold room
8:30 - 10:30 a.m.	Topological data analysis - Catanzaro	Machine vision - Zheng	Big code mining in Boa - Dyer	Deep learning - Sarkar	Data science for public good - Schroeder	Intro to SAS - Harroun
10:30 - 10:45 a.m.	Break					
10:45 - 12:15 p.m.	Basics of ML theory - Variyam	Data acquisition in the field - Marchetto	Decoding software productivity - Zimmermann	Spatio-temporal data analytics - Zhou	Data science for public good - Schroeder	SQL, SAS Macros, Integrations
12:15 - 1:30 p.m.	Lunch					
1:30 - 3:00 pm	Hashing for Big Data - Aduri	UAVs for elevation map - Young	Data science for SE - Vasilescu	Computational propaganda - Dorius	Analyzing GIS data using QGIS - Seeger	AI & ML in SAS
3:00 - 3:30 p.m.	Break					
3:30 - 5:00 pm	Adversarial attacks - Weber	Open science grid - Weitzel	Data science for SE - Vasilescu	Data squashing and curing - Cho	Visualizing using Tableau - Dorius	SAS Viya platform