

## Data Science Seminar

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The Data Science Seminar is evolved from the former [Statistical Machine Learning Seminar](#) which covered topics in statistical theory that was important for machine learning research as well as development and applications of machine learning techniques in interdisciplinary research. The scope of the Data Science Seminar has been broadened to facilitate dialogue among different communities in the data science circle.

It is listed as course MATH 568.

**Location:** Whitney 100E ([See the directions to the department](#))

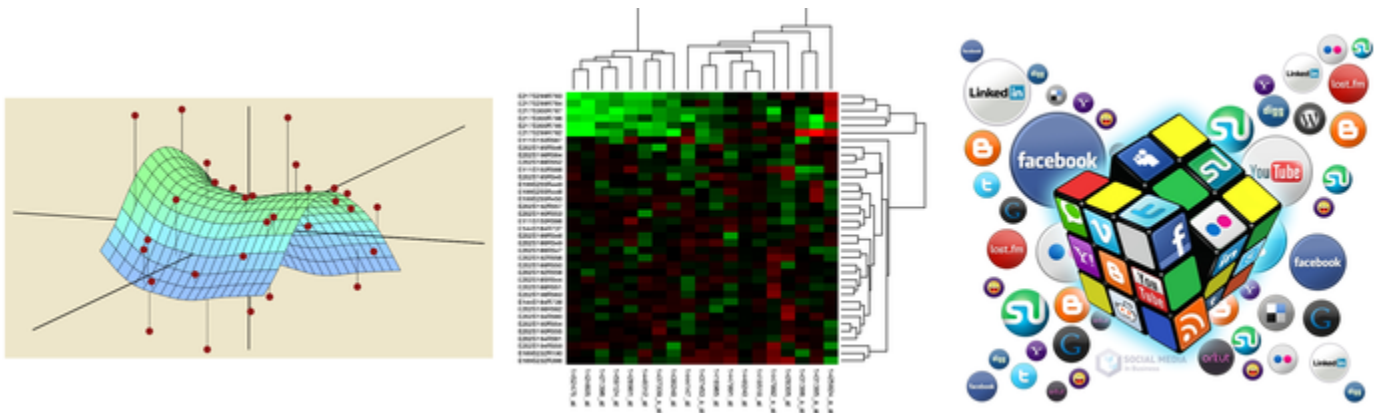
**Time:** Tuesday 12:00 pm –1:00 pm

**Organizer:** [Guifang Fu](#)

See also the [Statistics Seminar](#).

An internal [Machine Learning Working Group](#) meeting is held when no seminar talk is scheduled.

See [Previous talks in the Data Science Seminar](#) and even earlier talks.



### Fall 2021

#### ▪ Sep. 14, 2021

*Speaker:* Dr. Matthew Reimherr (Pennsylvania State University)

*Topic:* KNG - A New Mechanism for Data Privacy.

[Abstract](#)

#### ▪ Sep. 21, 2021

*Speaker:* Dr. Haoda Fu (Eli Lilly and Company)

*Topic:* Our Recent Development on Cost Constraint Machine Learning Models.

[Abstract](#)

#### ▪ Sep. 28, 2021

*Speaker:* Dr. Eric F. Lock (University of Minnesota)

*Topic:* Bidimensional Linked Matrix Decomposition for Pan-Omics Pan-Cancer Analysis.

[Abstract](#)

#### ▪ Oct. 19, 2021

*Speaker:* Dr. Damla Senturk (UCLA)

*Topic:* Multilevel Modeling of Spatially Nested Functional Data: Spatiotemporal Patterns of Hospitalization Rates in the U.S. Dialysis Population.

[Abstract](#)

▪ **Oct. 26, 2021**

*Speaker:* Dr. Giles Hooker (UC Berkeley)

*Topic:* There is No Free Variable Importance: Traps in Interpreting Black Box Functions.

[Abstract](#)

▪ **Nov. 2, 2021**

*Speaker:* Dr. Yuanjia Wang (Columbia University)

*Topic:* Machine Learning Approaches for Optimizing Treatment Strategies for Mental Disorders.

[Abstract](#)

▪ **Nov. 9, 2021**

*Speaker:* Dr. Megan Johnson (Internal)

*Topic:* The Interconnectivity Vector and the Betti Sequence: Finite-Dimensional Vector Representations of Persistent Homology.

[Abstract](#)

▪ **Nov. 16, 2021**

*Speaker:* Dr. Cen Wu (Kansas State University)

*Topic:* Robust Bayesian variable selection for gene-environment interactions.

[Abstract](#)

▪ **Nov. 30, 2021**

*Speaker:* Dr. Antonio Linero (University of Texas at Austin)

*Topic:* Bayesian Decision Tree Ensembling Strategies for Nonparametric Problems.

[Abstract](#)

▪ **Dec. 7, 2021**

*Speaker:* Dr. Annie Qu (University of California Irvine)

*Topic:* Correlation Tensor Decomposition and Its Application in Spatial Imaging Data.

[Abstract](#)

## Spring 2021

▪ **Mar. 02, 2021**

*Speaker:* Brian Franczak (MacEwan University)

*Topic:* On using mixtures of shifted asymmetric Laplace distributions for model-based classification.

[Abstract](#)

▪ **Mar. 23, 2021**

*Speaker:* Adam Ciarleglio (The George Washington University)

*Topic:* Multiple imputation in functional regression with applications to EEG data in a depression study.

[Abstract](#)

**▪ March 30, 2021**

*Speaker:* Wenshu Dai (Binghamton University)

*Topic:* Finite Mixtures of Regression Models and Finite Mixtures of Regression Models with Concomitant Variables for Clustering Microbiome Data.

[Abstract](#)

**▪ April. 13, 2021**

*Speaker:* Nalini Ravishanker (University of Connecticut)

*Topic:* Biclustering Approaches for High-Frequency Time Series.

[Abstract](#)

**▪ April. 27, 2021**

*Speaker:* Melody Ghahramani (The University of Winnipeg)

*Topic:* Time Series Regression for Zero-Inflated and Overdispersed Count Data: A Functional Response Model Approach.

[Abstract](#)

**▪ May 04, 2021**

*Speaker:* Zhou Wang (Binghamton University)

*Topic:* Multiclass Anomaly Detector: the CS++ Support Vector Machine

[Abstract](#)

## Fall 2020

**▪ Oct. 20, 2020**

*Speaker:* Sumanta Basu (Cornell University)

*Topic:* Measuring Systemic Risk with Graphical Models of Time Series Data.

[Abstract](#)

**▪ Oct. 27, 2020**

*Speaker:* Yuan Luo (Northwestern University)

*Topic:* A Multidimensional Precision Medicine Approach Identifies an Autism Subtype Characterized by Dyslipidemia

[Abstract](#)

**▪ Nov. 3, 2020**

*Speaker:* Shaofei Zhao (Binghamton University)

*Topic:* Distribution-free and nonparametric multivariate feature screening via measure transportation for high dimensional response and predictor variables.

[Abstract](#)

## Spring 2020

**▪ Mar. 24, 2020**

**CANCELLED AND POSTPONED**

*Speaker:* Sumanta Basu (Cornell University)

**▪ April. 21, 2020**

*Speaker:* Liang Li, Yunhui Liu and Han Zhang

*Topic:* Capstone Project: Factors Affecting PhD Student Success.

[Abstract](#)

▪ **April. 21, 2020**

**CANCELLED AND POSTPONED**

*Speaker:* Adam Ciarleglio (George Washington University)

▪ **May. 05, 2020**

**CANCELLED AND POSTPONED**

*Speaker:* Yuan Luo (Northwestern University)

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## Fall 2019

See the schedule of the **Interdisciplinary Dean's Speaker Series in Data Science**.

▪ **Oct. 9, 2019 (special day and time)**

**Interdisciplinary Dean's Speaker Series in Data Science**

*Speaker:* Joseph W Hogan (Brown University)

*Topic:* Using Electronic Health Records Data for Predictive and Causal Inference About the HIV Care Cascade

[Abstract](#)

▪ **Oct. 11, 2019 (Special Date and time)**

*Speaker:* Paul McNicholas (McMaster University)

*Topic:* Clustering Higher-Order Data

[Abstract](#)

▪ **Oct. 22, 2019**

*Speaker:* Gen Li (Columbia University)

*Topic:* Integrative multi-view regression: Bridging group-sparse and low-rank models.

[Abstract](#)

▪ **Oct. 24, 2019 (1:15 pm, stat seminar time)**

*Speaker:* Doug Turnbull (Ithaca College)

*Topic:* TBA

[Abstract](#)

▪ **Oct. 29, 2019**

*Speaker:* Wangshu Tu (Binghamton University)

*Topic:* A family of mixture models for biclustering

[Abstract](#)

▪ **Nov. 5, 2019**

*Speaker:* Wangshu Tu (Binghamton University)

*Topic:* Non existence of fixed sample estimator for prescribed proportional closeness

[Abstract](#)

**▪ Nov. 8, 2019****Interdisciplinary Dean's Speaker Series in Data Science**

*Speaker:* Andrew Gordon Wilson (New York University; Courant Institute of Mathematical Sciences)

*Topic:* How do we build models that learn and generalize?

[Abstract](#)

**▪ Nov. 12, 2019**

*Speaker:* Kexuan Li (Binghamton University)

*Topic:* A Hausman test for the presence of market microstructure noise in high frequency data

[Abstract](#)

**▪ Nov. 19, 2019****Interdisciplinary Dean's Speaker Series in Data Science**

**Time: 10am-11:30am**

**Location: UUW325**

*Speaker:* Arthur Spirling (New York University; Politics and Data Science)

*Topic:* Word Embeddings: What works, what doesn't, and how to tell the difference for applied research

[Abstract](#)

**▪ Nov. 26, 2019**

*Speaker:* Wei Yang (Binghamton University)

*Topic:* Random Covariance Matrix and the Marchenko-Pastur law

[Abstract](#)

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## Spring 2019

**▪ March 05, 2019**

*Speaker:* Rebecca Nugent (Carnegie Mellon University)

*Topic:* Before Teaching Data Science, Let's First Understand How People Do It

[Abstract](#)

**▪ March 12, 2019**

*Speaker:* Subhadeep (Deep) Mukhopadhyay (Temple University)

*Topic:* Graph Data Science

[Abstract](#)

**▪ March 26, 2019****The Dean's Speaker Series in Statistics and Data Science**

*Speaker:* Regina Y. Liu (Rutgers University)

*Topic:* Fusion Learning: Efficient Combination of Inferences from Diverse Data Sources

[Abstract](#)

**▪ April 9, 2019**

*Speaker:* David Hunter (Pennsylvania State University)

*Topic:* Multivariate Nonparametric Mixture Models

[Abstract](#)

**▪ April 16, 2019****The Dean's Speaker Series in Statistics and Data Science**

*Speaker:* David Madigan (Columbia University)

*Topic:* Towards honest inference from real-world healthcare data

[Abstract](#)

**▪ April 23, 2019**

*Speaker:* Daphney-Stavroula Zois (SUNY Albany)

*Topic:* Spatiotemporal Quickest Change Detection for Traffic Accident Nowcasting

[Abstract](#)

**▪ April 30, 2019**

*Speaker:* Lin Yao (Binghamton University)

*Topic:* Dissertation Defense - JAMES-STEIN-TYPE OPTIMAL WEIGHT CHOICE FOR FREQUENTIST MODEL AVERAGE ESTIMATOR

*Special time and location:* 3:30 pm at OR 100D

[Abstract](#)

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## Fall 2018

**▪ October 9, 2018****The Dean's Speaker Series in Statistics and Data Science**

*Speaker:* Sidney Resnick (Cornell University)

*Location:* Old Champlain Atrium ([unusual location](#))

*Topic:* Fitting the Linear Preferential Attachment Model for Social Network Growth

[Abstract](#)

**▪ October 23, 2018****The Dean's Speaker Series in Statistics and Data Science**

*Speaker:* David Ruppert (Cornell University)

*Topic:* Density Estimation with Noisy Data

[Abstract](#)

**▪ November 13, 2018**

*Speaker:* Yudong Chen (Cornell University)

*Topic:* Byzantine-Robust Distributed Learning with Non-converxy

[Abstract](#)

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## Spring 2018

**▪ January 30**

*Speaker:* Qiqing Yu (Binghamton University)

*Topic:* Identifiability Conditions For The Linear Regression Model Under Right Censoring

[Abstract](#)

**February 20**

*Speaker:* Yinsong Chen (Binghamton University)

*Topic:* The Conductance and Mixing Time

[Abstract](#)

**March 13**

*Speaker:* **Jiexin Duan** (Purdue University)

*Topic:* **Large-Scale Nearest Neighbor Classification with Statistical Guarantee**

[Abstract](#)

**March 20**

*Speaker:* **Yuan Fang** (Binghamton University)

*Topic:* **Bayesian Approach to Parameter Estimation for the mixtures of Multivariate Normal Inverse Gaussian Distributions**

[Abstract](#)

**April 10**

*Speaker:* **Leila Setayeshgar** (Providence College)

*Topic:* **Large Deviations for a Class of Stochastic Semilinear Partial Differential Equations**

[Abstract](#)

**April 17**

*Speaker:* **Wenbo Wang** (Binghamton University)

*Topic:* **A look at distance-weighted discrimination**

[Abstract](#)

**April 24**

*Speaker:* **Haomiao Meng** (Binghamton University)

*Topic:* **Multicategory Angle-based Large-margin Classification**

[Abstract](#)

**May 1**

*Speaker:* **Chen Liang** (Binghamton University)

*Topic:* **Goodness of fit tests for clustered spatial point processes**

[Abstract](#)

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**Fall 2017****September 19**

*Speaker:* **Dan Yang** (Rutgers University)

*Topic:* **Autoregressive Model for Matrix Valued Time Series**

[Abstract](#)

**September 26**

*Speaker:* **Ji Meng Loh** (New Jersey Institute of Technology)

*Topic:* **Single-index model for inhomogeneous spatial point processes**

[Abstract](#)

▪ **November 14**

*Speaker:* **Weijie Su** (Wharton School of the University of Pennsylvania)

*Topic:* **TBA**

[Abstract](#)

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