WestVirginiaUniversity®

SCHOOL OF PUBLIC HEALTH

Department of Biostatistics

Monthly Seminar Series

Wednesday, January 23, 2019

11:00 a.m. – 12:00 p.m.

Erma Byrd Room 101

Speaker:

Jeff Cox

Principal Software Architect

Biomedical Informatics

WV Clinical and Translational Science Institute (WVCTSI)

Topic:

Predictive Analytics using Oracle Data Mining

Oracle Data Mining algorithms include:

Classification: Generalized Linear Models Logistic Regression, Naïve Bayes, Support Vector Machine, Decision Tree.

Regression: Generalized Linear Models Multiple Regression, Support Vector Machine

Attribute Importance: Minimum Description Length

Anomaly Detection: One-Class Support Vector Machine

Clustering: Enhanced K-Means, Orthogonal Partitioning Clustering, Expectation Maximization

Association: Apriori

Feature Selection and Extraction: Non-negative Matrix Factorization, Principal Component Analysis, Singular Vector Decomposition

A demonstration will be provided