

Areas of Interest

- Data Science on complex networks, large scale graph analysis
- Topological data analysis, applications to networks
- Nonparametric statistical methods, functional data analysis
- Machine Learning and Graph Mining on Bitcoin and Ethereum Blockchains

Education

- 2017–Present **University of Texas at Dallas - Master of Science in Statistics**,
Advisor: Yulia R. Gel; Current GPA 4.0/4.0.
- 2012–2014 **University of Florida - Master of Science in Mechanical Engineering**,
Achievement Award Scholarships; GPA 3.6/4.0.
- 2008–2012 **Central South University - Bachelor of Science in Mechanical Engineering**,
Changsha, China, GPA 89/100, Rank top 10%.

Experience

- Jan. 2018 – Present **Research Assistant in Statistics and Computer Science**, University of Texas at Dallas.
Team with UTD Data Security and Privacy Lab
- Explore topological data analysis method on large scale networks: cryptocurrency market
 - Compute topological features on graphical models from over 1 million transaction records
 - Predict Ethereum token price return with functional data analyzed data shape variables
 - Detect anomalous transaction address in Bitcoin blockchain
- Topics: *Topological Data Analysis/Blockchain/Functional Data Analysis/Graphical Model*
- Aug. 2014 – **Mechanical Engineer**, Aker Solutions Inc., Houston, TX.
- Dec. 2016
- Simulated and verified the design of offshore oil and gas production equipment
 - Developed employee and project database to facilitate management and tender teams
- Jan. – May 2014 **Mechanical Engineer Intern**, SpinCore Technologies, Inc., Gainesville, FL.
Improved enclosure design and performed product machining & assembly

Publications

- Submitted **Ethereum Token Price Anomaly Prediction with Topological Depth Curves**.
Y. Li, U. D. Islambekov, C. G. Akcora, E. Smirnova, Y. R. Gel, M. Kantarcioglu

Computer Skills

- Coding R, C++, Java, Python, Matlab, Excel-VBA, SAS, \LaTeX
- Libraries Igraph, Tidyverse (ggplot), Plotly, GUDHI, javaPlex, scikit-learn

Others

- Certificate CFA Level III candidate
- Membership American Statistical Association – Statistical Learning and Data Science
- Talks University of Texas at Dallas, Statistics, Dallas, Texas. Oct 2018.