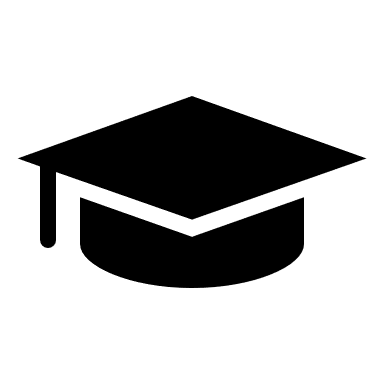
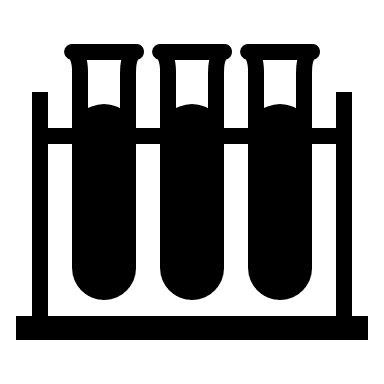
**Education**

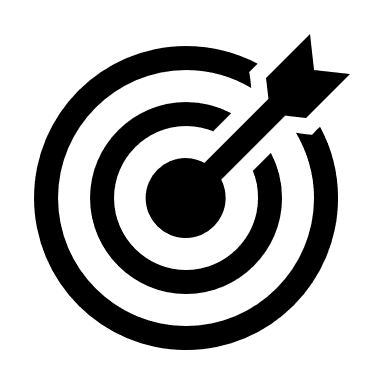
**Ferris State University**, Big Rapids, MI

Bachelor’s in Applied Mathematics - Actuarial Science *(BS)*, GPA 3.50,

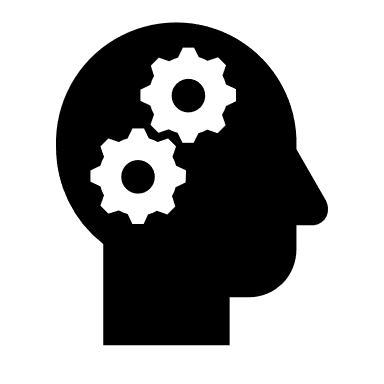
Minor in Finance, Certificate in Insurance Risk Management

**City University of New York**, New York, NY

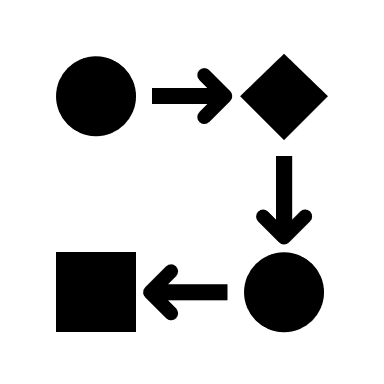
**Master’s in Data Science *(MS),* GPA 4.0, 2018 – 2020

**Skills**

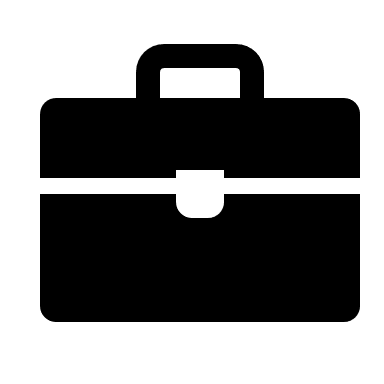
**Data Science/Analytics -**

* + Highly Proficient in R, SQL, Knime, & SAS
  + Intermediate Experience in Python including (scikit-learn, pandas, matplotlib, seaborn, numpy, plotly)
  + Exposure to C++, HTML, CSS, and JavaScript
  + Extensive Relational Database Experience in SQL Server, SAS, and exposure to graph Databases
  + Implemented Random Forest Models and GLMs to solve complex Business problems
  + Highly Knowledgeable in Linear Models, Tree Based Models, Generalized Linear Models, and Clustering Techniques
  + Highly Skilled in creating Data Pipelines
  + Extensive experience in Feature Engineering and discovering/utilizing new Data Sources
  + Creative Thinker who approaches problems with a variety of methodologies and tools to implement when needed

**Mathematics -**

* + Calculus, Linear Algebra, Differential Equations (Full Undergraduate work in Mathematics)
  + Probability (Stochastic Models, Random Variables, Markov Chains, Probability Distributions)
  + ****Knowledge of a multitude of statistical methods

**Process Engineering/Process Intelligence -**

* + Conducted Current State Process Analysis and Optimization
  + Extensive Knowledge of Business Process Management Methodology
  + Experience with Robotic Process Automation and Automation of Analytics

**Experience**

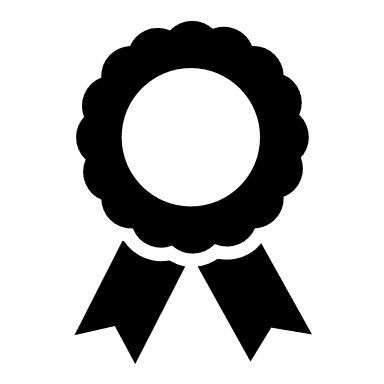
**Jackson National Life** Lansing, MI

*Business Process Engineering Analyst*, January 2017 –January 2019

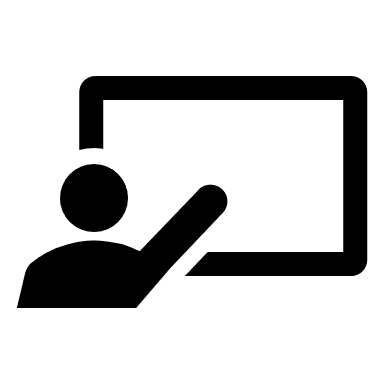
* + Detailed Business Process Analysis and Improvement Initiatives
  + Saved 10+ hours of Daily Employee Work by Reducing Redundancies in Critical Business Processes
  + Provided Data Analysis for C-Level Decision Making and B2B Negotiations
  + Used Mathematics and Domain Knowledge to determine Precise Costs of Key Business Processes
  + Provided Analytical Support for Large Scale Automation Projects
  + Utilization of New Analytical Techniques such as Process Mining
  + Automation and Maintenance of Critical Production Reporting

**Farm Bureau Insurance of Michigan**, Lansing, MI

*Enterprise Data Analyst*, January 2019 – Present

* + Built and Productionized Lucrative Auto Underwriting Predictive Model (100K/month in Recovered Premium)
  + Predictive Models for Property Inspections, Underwriting Processes, Claims Processes
  + Evangelized Use of Analytics and Data across Enterprise

**Honors/Certifications**

* Recipient of Ferris State’s Founder Academic Scholarship (Highest Academic Scholarship) & Puterbaugh Math Scholarship
* Captain of College and High School Football teams
* 2nd Place out of 33 at Ferris State Amateur Speaking competition in 2013 (Speech on MoneyBall)
* Passed the Society of Actuaries Probability Exam, Financial Mathematics Exam, and Statistics for Risk Modeling Exam

**Work Sample**

* **Transparent Random Forest Function I built:** <https://github.com/crarnouts/Random_Forest_Function/blob/master/RandomForestNulls_testing.R>
* **Data Driven Blog Post:** <https://rpubs.com/qqz0117/517018>
* **R Shiny Application:** <https://corey-arnouts.shinyapps.io/Data_608_Project_3/>