Parker Stephen Joncus

(503) 841-8610 · pjoncus@hawk.iit.edu · linkedin.com/in/parker-joncus · https://parkerjoncus.com

SUMMARY

Pursuing a Bachelor of Applied Mathematics and Master of Data Science, and currently searching for a full-time position in Data Analytics after graduating in May 2019

EDUCATION

2015 – Present **ILLINOIS INSTITUTE OF TECHNOLOGY** Chicago, IL

Bachelor degree, Expected May 2019
Applied Mathematics
GPA: 3.72
Master degree, Expected May 2019
Data Science
GPA: 3.87

SKILLS

- Proficient in Microsoft Word, PowerPoint, Excel, and LaTex
- Experienced in social media outlets including Facebook, Twitter, Instagram, and LinkedIn.
- Proficient in using Matlab, R, Python, QGIS, Github, Sourcetree, and SQL
- Familiar with C, Java, Unix, Linux, HTML, SAS, SPSS, Docker, PostreSQL, Go, Azure CycleCloud, Macaulay2, Tensorflow, Horovod, and MPI

RESEARCH

Summer/Fall 2018 **STUDENT CLUSTER COMPETITION** Chicago, IL

Student Research Assistant

- Set up different Linux distributions on a desktop and used it as a virtual machine
- Wrote files to automatically tune and run HPL and then take the data to determine the best configuration
- Used Horovod, a deep learning framework of TensorFlow to run precise neural networks as fast as possible
- Set up clusters on Azure CycleCloud to help compile and run applications for the competition

Summer 2017 **STUDY OF MONOMIAL IDEALS IN APPLIED ALGEBRA** Chicago, IL

Student Research Assistant

- Wrote and debugged methods that provide statistics of various characteristics of monomial ideals for general users of Macaulay2 to utilize
- Created test cases and documentation for each method to ensure that methods will always work correctly and to give users a reference on how to use the methods
- Created a PowerPoint and poster presentation of the entire project, that was later presented to the Applied Mathematics Department at Illinois Institute of Technology

PROJECT EXPERIENCE

Fall 2018 **AMERICAN RED CROSS FIRE ANALYSIS** Chicago, IL

Interprofessional Project

- Partnered with the American Red Cross (ARC) and used their fire data to visualize the effects of different factors with the fire incidents.
- Reached out to organizations in high risk areas to increase the community outreach of ARC in those areas
- Built predictive models on the data to predict the number of incidents in a community of Chicago.

Spring 2018 **CAMPUS SAFETY DATA ANALYSIS PROJECT** Chicago, IL

Data Preparation and Analysis

- Obtained data by web scraping the IIT public safety blog, made calls to Chicago police API, and made calls to weather underground API to add the weather conditions to the data
- Used machine learning techniques such as Naïve Bayes, Logistic Regression, Decision Tress, and Random Forests to predict the probability of a crime happening in a location
- Created an application with Shiny to show the crime hotspots forecast for 1, 3, and 5 days in advance