

# Leo Tsang

DATA SCIENTIST · MSc. DATA SCIENCE & ANALYTICS

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## ABOUT ME

**Languages** Python (PySpark), R  
**Data Related** SQL, Hadoop, Spark, Hive, MapReduce  
**ML-Packages** Pandas, NumPy, SciPy, Sci-Kit Learn, NetworkX, Keras  
**Visualization** matplotlib, ggplot2, Tableau, PowerBI, Gephy

## EDUCATION

### Ryerson University

Toronto, ON

MASTER OF SCIENCE, DATA SCIENCE & ANALYTICS

September 2018 - Expected 2020

- Course Work: Machine Learning, Big Data Tools, Graph Mining, Deep Learning, Design of Algorithm & Programming for Big Data

### Chang School of Continue Education, Ryerson University

Toronto, ON

CERTIFICATE IN DATA ANALYTICS, BIG DATA, AND PREDICTIVE ANALYTICS

May 2016 - June 2018

## EMPLOYMENT

### Senior Research Analyst

July 2019 - Present

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Manage University's research portfolio for Public University Ranking Agencies (THE, QS, USA News), including compiling research funding metrics, Bibliometric, and Researcher's profile
- Scrape public databases using Python for Bibliometric data, and build researcher's profile to be used in performance evaluation and award recognition
- Forecast the effect of research-related performance changes on scholarly, research and creative (SRC) resources in order to provide a basis for resource allocation, assess financial viability of new research initiatives and to advise the Vice-President and senior management on resource planning
- Create reports, scenarios and data models on a regular and ad hoc basis from research and non-research data sources, as requested by OVPRI senior management. Gather and organize statistical information on faculty and department SRC activities at Ryerson to assist management on resource allocation
- Develop, and define goals for University Policy Procedure under the research portfolio, worked closely with University Planning Office on setting requirements to be met by the Research Office

### Research Analyst

September 2016 - June 2019

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Actively monitored revenue upwards of \$100M to ensure correct amount are being recorded for fiscal year end; Identified different approach to reporting research revenue which allowed up to \$1M to be considered
- Research and evaluate research-related data in order to create information suitable for research planning and decision support resulting in metrics used to help determine Faculty's performance
- Generate interactive dashboards via Tableau visualizing various research metrics for senior management and faculty dean for strategic planning purposes
- Collect, produce, analyze and interpret information including research funding performance evaluation and strategy, research performance indicators, and policy development for use by the Vice-President, senior management in the portfolio, other Vice- Presidential portfolios, faculties and departments
- Automate reports using Python or VBA to streamline processes improving team's efficiency
- Design and conducted confidential surveys by using various masking techniques for full anonymity

### Research Assistant

September 2014 - August 2016

RYERSON UNIVERSITY - OFFICE OF VICE PRESIDENT, RESEARCH & INNOVATION

Toronto, ON

- Reconciled monthly expenditures to ensure all expenses are rightfully expended resulting in error-free audit for fiscal-year end
- Maintain databases and assist in producing reports, briefing materials, correspondence and other documentation to support operations
- Wrote SQL queries to extract and transform existing data for analytical purposes
- Created user-defined functions of KPI calculations for ease of use for quick analysis

## PROJECTS

**Predicting NBA All-Star 2019-20** Web scrape 5-years of NBA statistics, perform feature engineering and execute XGBoost algorithm