UNIVERSITIES IN ONTARIO

ME8₁₃₅ FINAL PRESENTATION HIRA FATIMA APRIL 11, 2017











DATASETS

Source: https://www.ontario.ca/data/university-enrolment

Number of Datasets: 12

Time Frame: The data is based on Fall 2012 enrollment













head_count_by_spem head_count_by_unive head_co









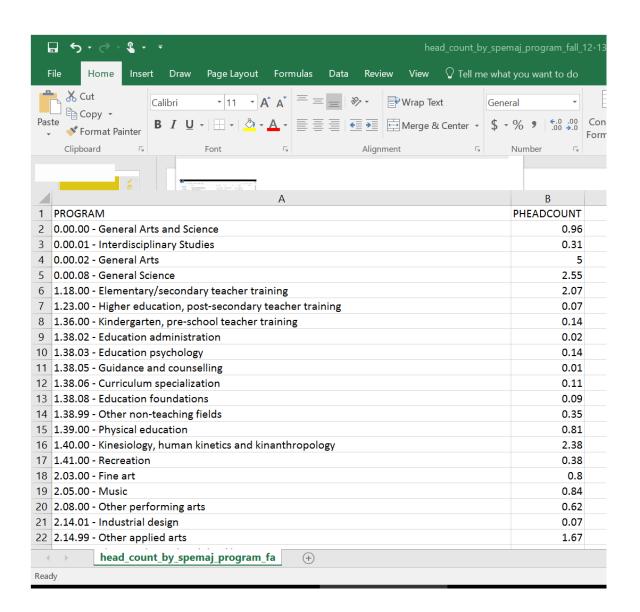




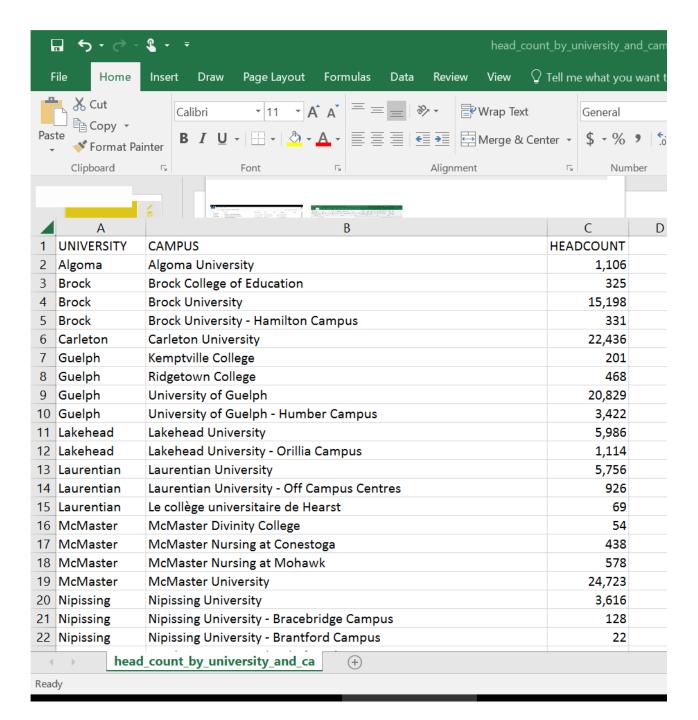
head_count_by_unive head_count_by_unive head_count_by_unive head_count_by_unive head_count_by_unive head_count_by_unive rsity_and_immigratiorsity_and_level_of_stursity_and_mother_tonrsity_and_province_ofrsity_and_registrationrsity_and_year_of_stu

DESCRIPTION OF PROBLEM









DATA SOURCE



Data catalogue \rightarrow University enrolment

University enrolment

Enrolment and Statistical data for universities in the province that receive regular operating funding from the Ministry of Training, Colleges and Universities.

Data from the Ministry of Training, Colleges and Universities' College Enrolment Statistical Reporting system.

Provides aggregated key enrolment data for university students, such as:

- enrolment headcounts by program type, institution and campus
- enrolment by student status (e.g., domestic, international, citizenship) by institution
- enrolment by prior education activity and level of study by institution
- enrolment by credentials pursued/registration status
- student characteristics (e.g., gender, age, first language)
- student status by institution by province, country of residence.

Data is based on the fall 2012 enrolment report. To protect privacy, numbers are suppressed in categories

DATA SOURCE

Data is based on the fall 2012 enrolment report. To protect privacy, numbers are suppressed in categories with less than 10 students.

Download data

Head Count by SPEMAJ Program Fall 12-13 | CSV CSV

Head Count by University

Head Count by University

and Country of Citizenship

Fall 12-13 | CSV

and Age Group Fall 12-

13||CSV

CSV

CSV

Head Count by University and Province of Residence Fall 12-13 | CSV CSV

Head Count by University

and Campus Fall 12-13||CSV **CSV**

Head Count by University and FORPOS Program Fall 12-13||CSV CSV

Head Count by University and Gender Fall 12-13 | ICSV **Head Count by University** and Immigration Status Fall

Data description

Data published April 8, 2014

Publisher Advanced Education and Skills Development

Time captured April 9, 2014 - April 9, 2014

Update frequency Yearly

Geographical coverage Ontario

DATA SOURCE

File Name	Fields
Head Count by Program Major	UNIVERSITY, PROGRAMS SPEMAJ, HEAD COUNT
Head Count by Age Group	UNIVERSITY, AGE GROUP, HEAD COUNT
Head Count by Campus	UNIVERSITY, CAMPUS, HEAD COUNT
Head Count by Country of Citizenship	UNIVERSITY, COUNTRY OF CITIZENSHIP, HEAD COUNT
Head Count by Program of Study	UNIVERSITY, PROGRAM FORPOS, HEAD COUNT
Head Count by Gender	UNIVERSITY, GENDER, HEAD COUNT
Head Count by Immigration Status	UNIVERSITY, IMMIGRATION STATUS, HEAD COUNT
Head Count by Level of Study	UNIVERSITY, LEVEL OF STUDY, HEAD COUNT
Head Count by Mother Tongue	UNIVERSITY, MOTHER TONGUE, HEAD COUNT
Head Count by Province of Residence	UNIVERSITY, PROVINCE OF RESIDENCE, HEAD COUNT
Head Count by Registration Status	UNIVERSITY, REGISTRATION STATUS, HEAD COUNT
Head Count by Year of Study	UNIVERSITY, YEAR OF STUDY, HEAD COUNT

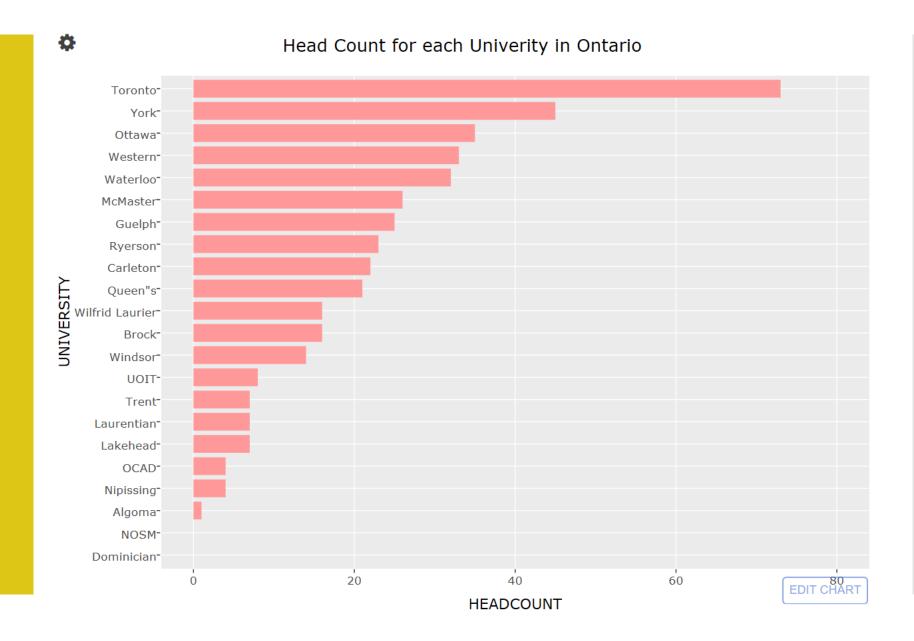


TECHNOLOGIES USED

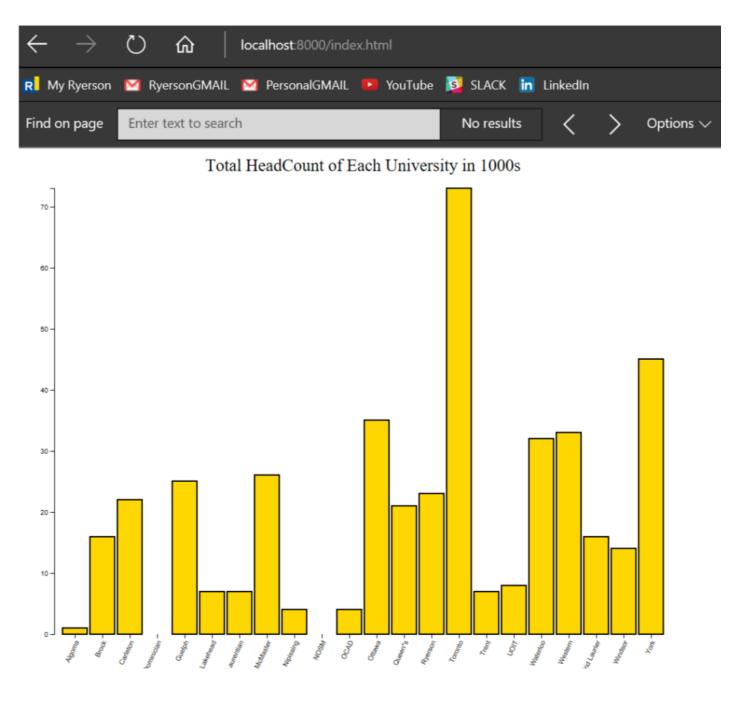


PREPROCESSING ON DATA

HEAD COUNT

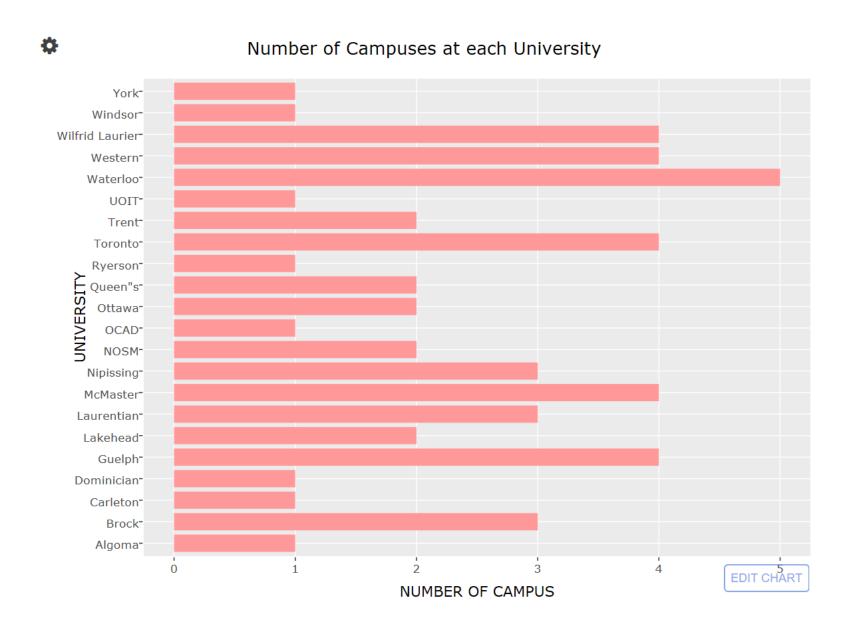


HEAD COUNT

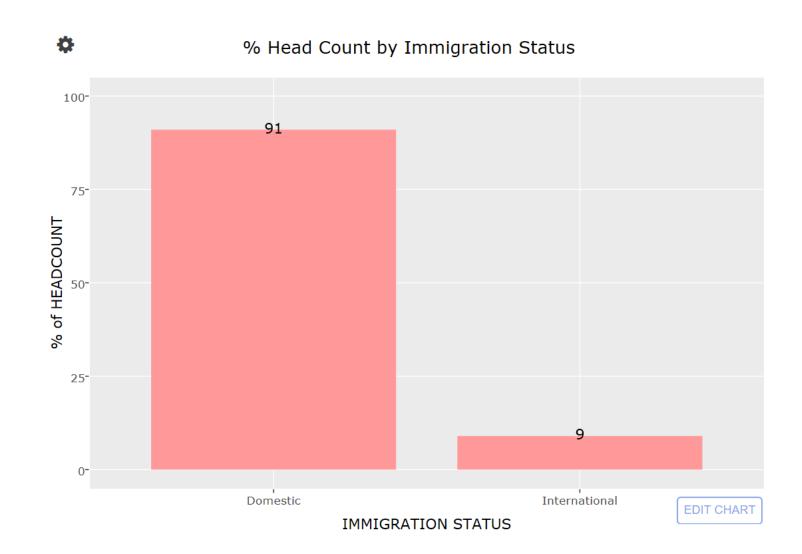


NUMBER OF CAMPUSES

AVERAGE:2.4

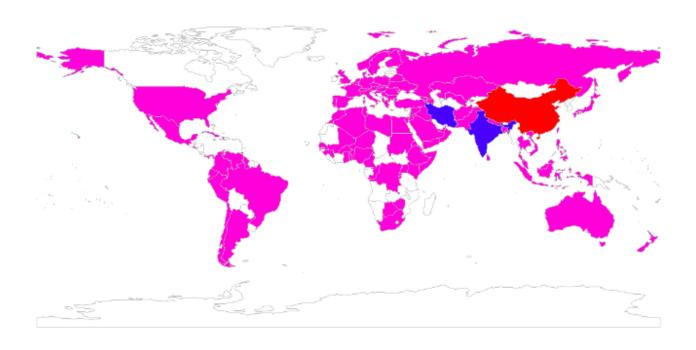


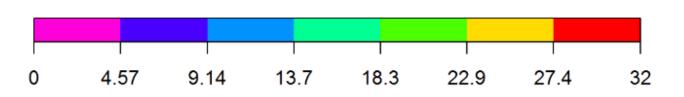
IMMIGRATION STATUS



INTERNATIONAL STUDENTS

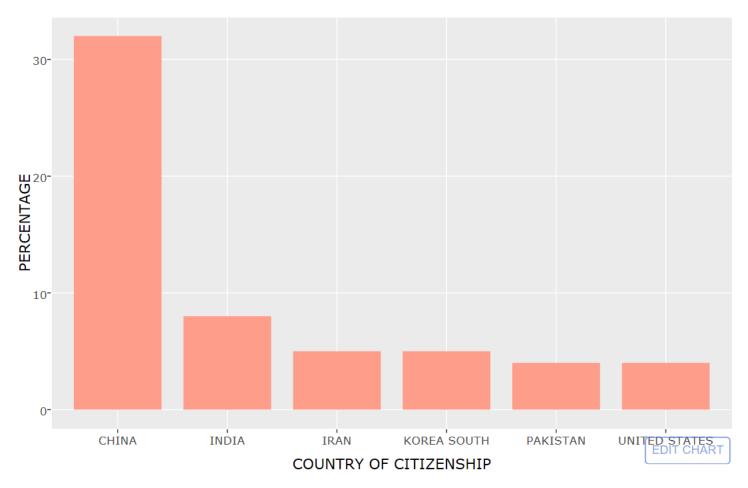
HEADCOUNT (%)





TOP 10 COUNTRIES

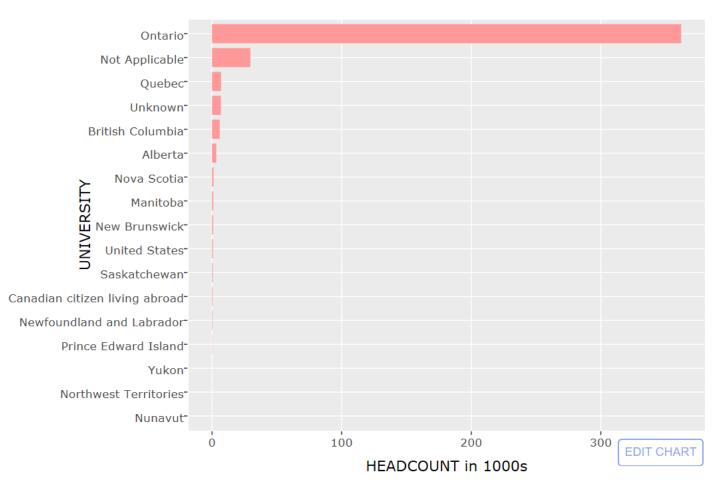




PROVINCE OF RESIDENCE

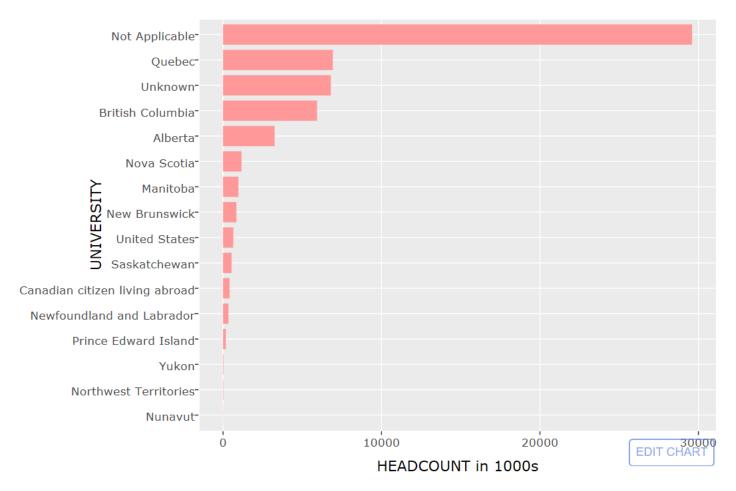
Head Count by Province of Residence (Including Ontario)

*

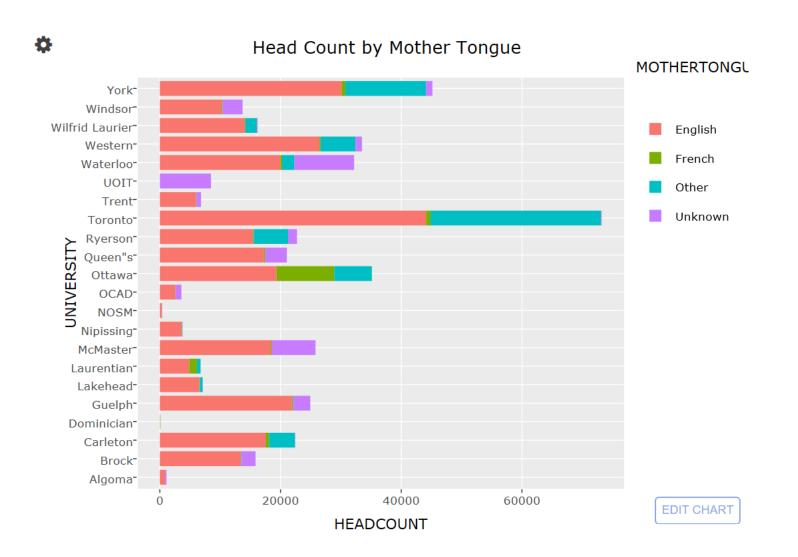


PROVINCE OF RESIDENCE

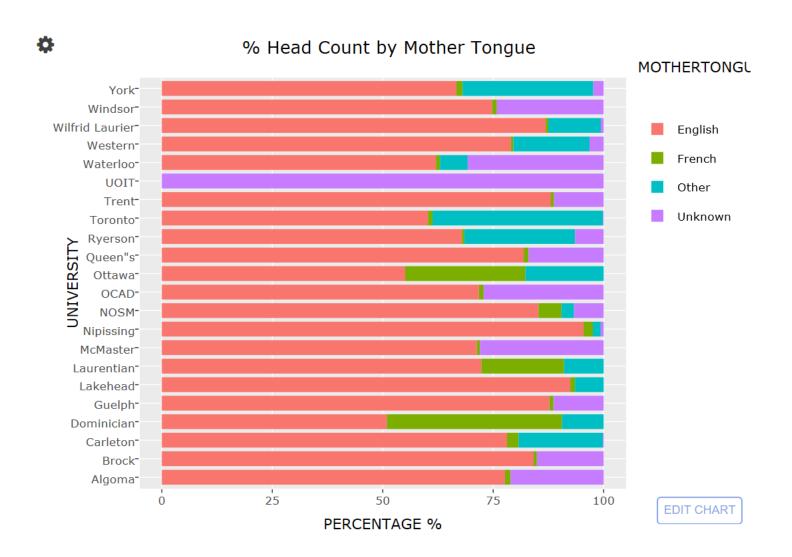
Head Count by Province of Residence (Excluding Ontario)



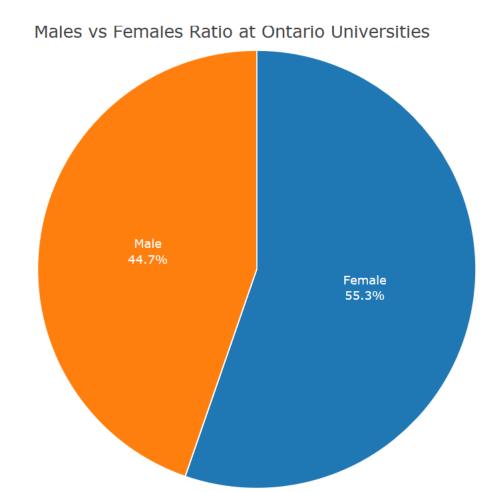
MOTHER TONGUE



MOTHER TONGUE NORMALIZED

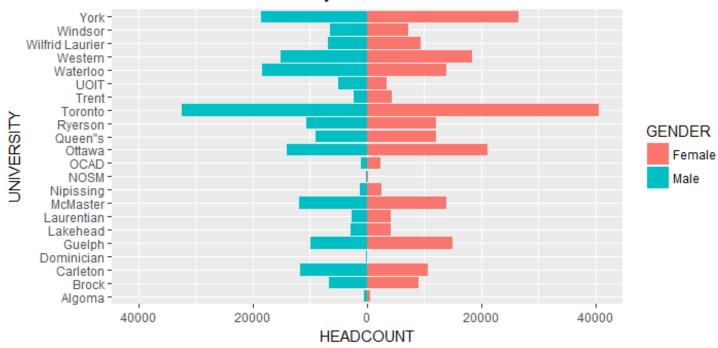


GENDER.



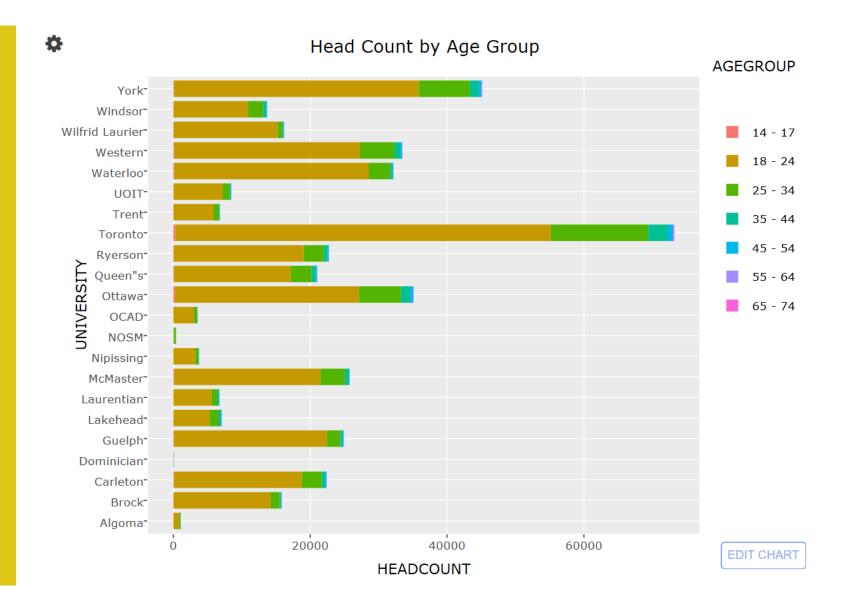
EDIT CHART

Head Count Distribution by Gender

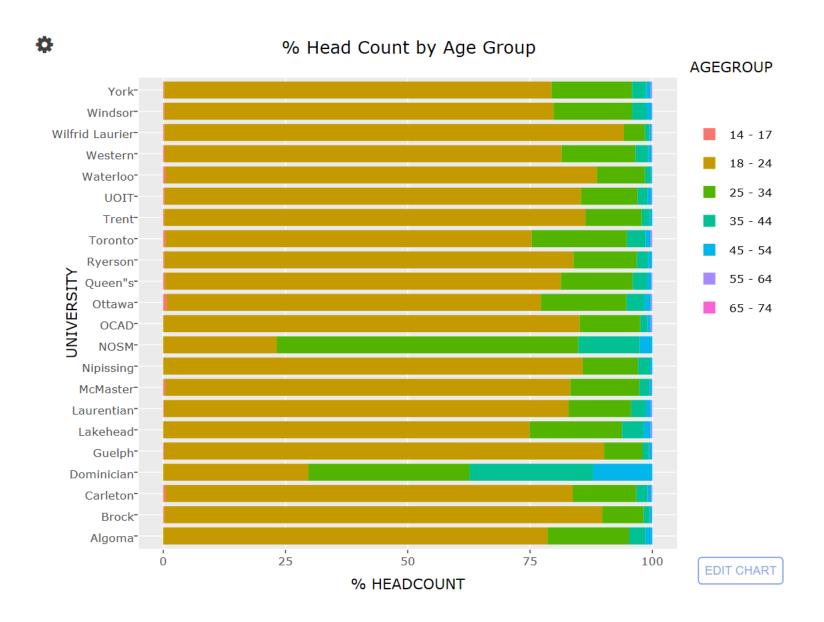


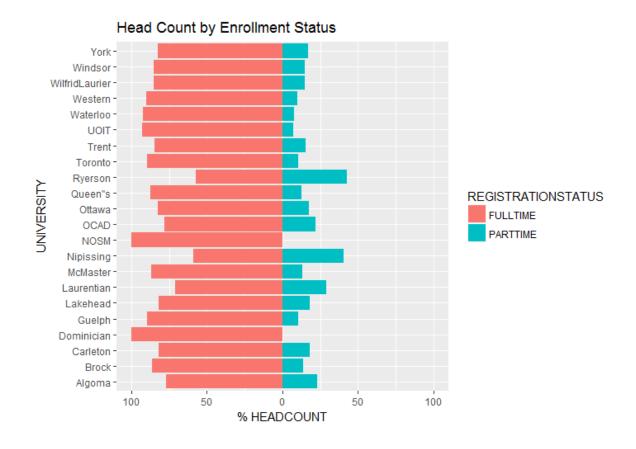
MALES vs. FEMALES

AGE GROUP



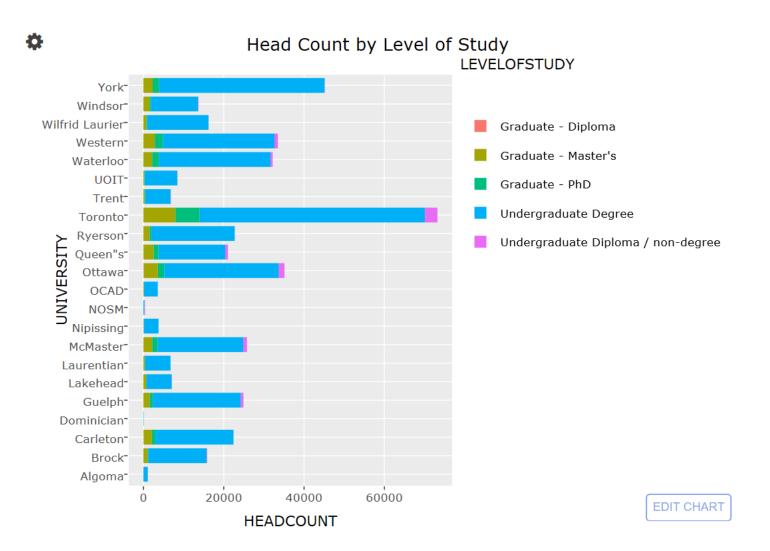
AGE GROUP NORMALIZED



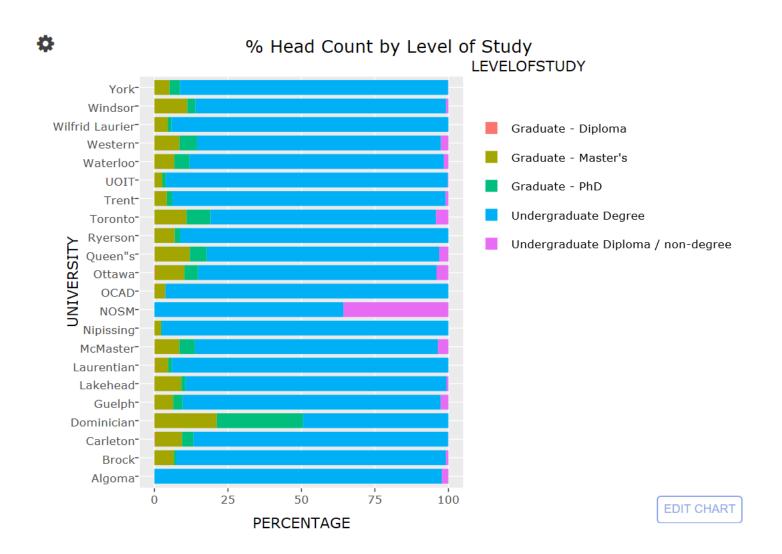


ENROLLMENT STATUS

LEVEL OF STUDY



LEVEL OF STUDY NORMALIZED

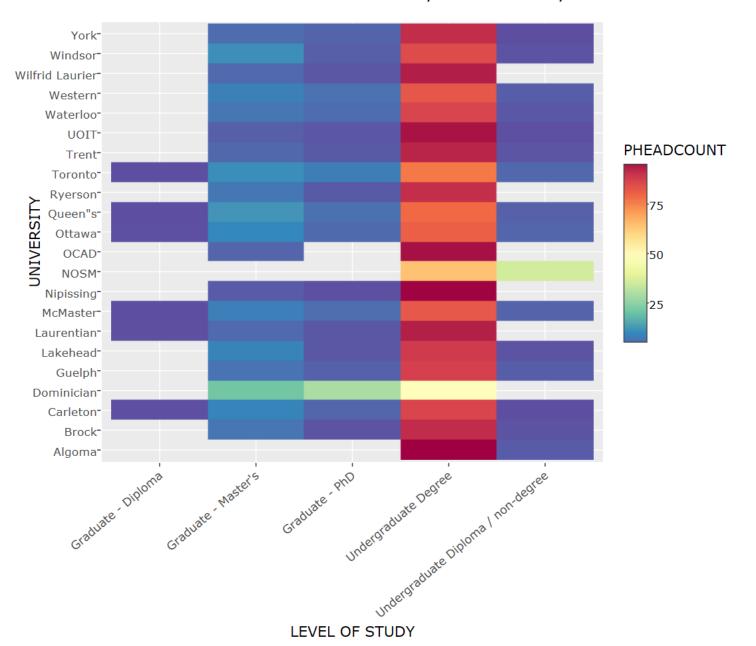


LEVEL OF STUDY

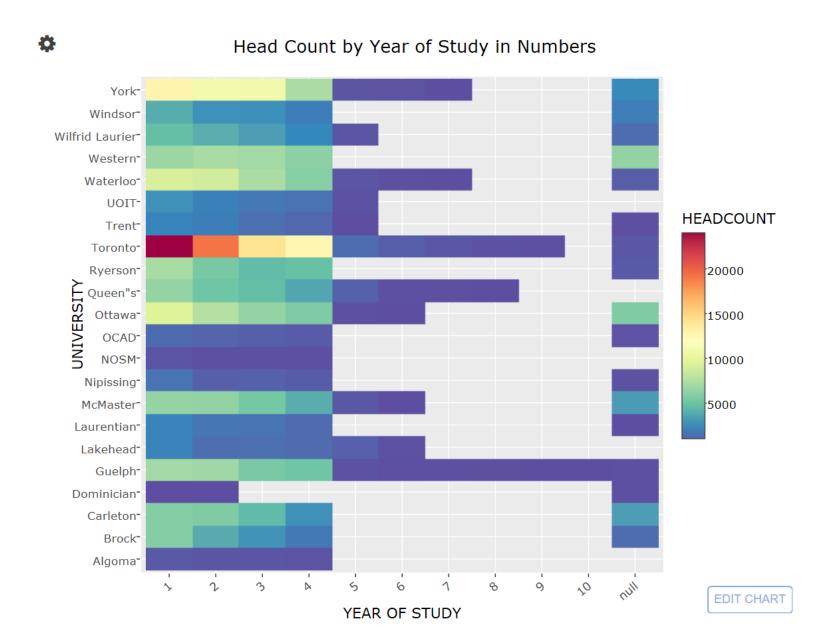
NORMALIZED HEATMAP

*

% Head Count Distribution by Level of Study

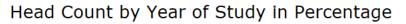


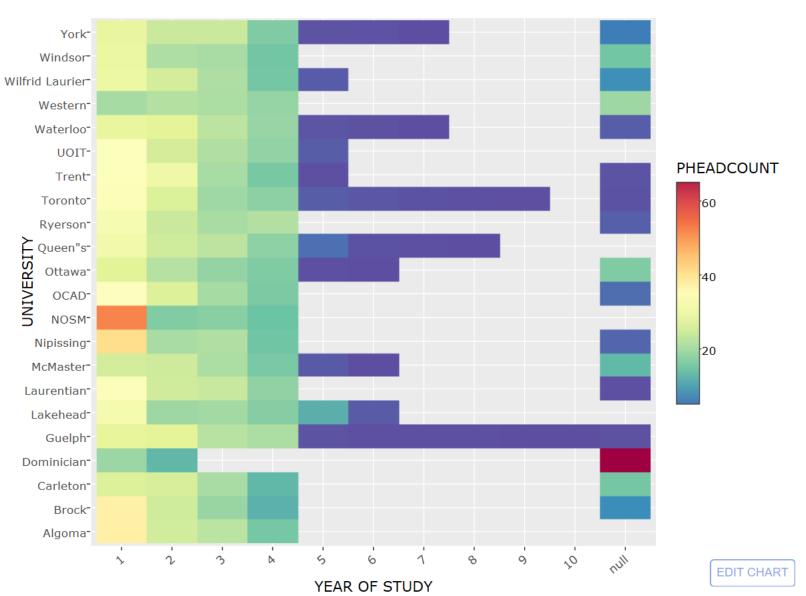
YEAR OF STUDY



YEAR OF STUDY NORMALIZED

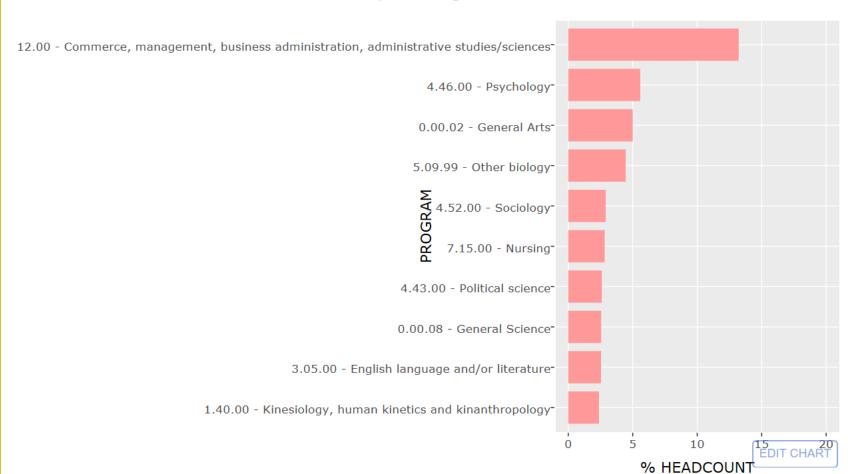
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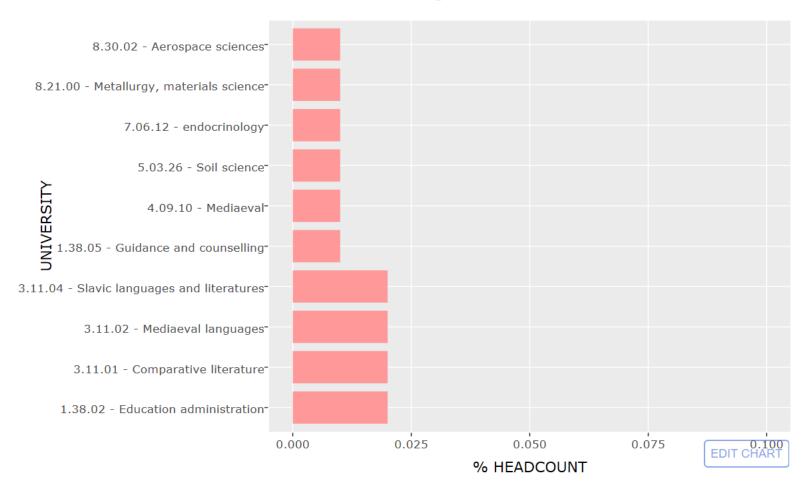
TOP 10 PROGRAMS





BOTTOM 10 PROGRAMS

Bottom 10 Programs



CONCLUSION



Highest Head Count









Dominican University







LESSONS LEARNED

Formulate a question and then try to answer it using visualizations

PLOTLY!!! Uses D₃ in the background to create interactive visualizations with half the effort

R Markdown Report Format

THANKYOU!

