

Chicago, IL

Available to Relocate

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**Kelsey Oros**

Data Analyst with Certificate from Northwestern University and a background in education. Strong skills in SQL, Python, Tableau, Excel, Google Data Studio, and more. Mathematics and Integrated Math Education double major with proven dedication to encourage a data-led environment. Seeking to leverage my skills and experience to join a data-driven team committed to improving educational outcomes.

**SKILLS**

Expert: Mathematics, Programming (Python, SQL), Tableau, Google Data Studio, MS Office(Excel, PowerPoint, Word), Education metrics, Interpersonal skills, Public speaking, Organization, Time management

Advanced: Web development (JavaScript, HTML, CSS), VBA

Intermediate: Machine learning (Random Forest, scikit-learn), MongoDB

**EDUCATION**

**Northwestern University Data Science Bootcamp February-August 2020**

6-month intensive program focused on real-world problem solving using statistical techniques and technologies including SQL, Python, Tableau, VBA, Excel and more.

**Miami University, Oxford, Ohio August 2011-May 2015**

Bachelor of Arts in Mathematics

Bachelor of Science in Integrated Math Education

**International Education Summer 2013**

Progressed through eight European Countries while studying International Accounting and International Business Law.

**EXPERIENCE**

**Lead Teacher:**

Noble Network of Charter Schools, ITW David Speer Academy **August 2016-July 2020**

* Founding Honors Pre-Calculus, Honors Calculus, and Pre-Calculus teacher serving Juniors and Seniors
* Led professional development for all pre-calculus teachers across the network of schools
* Acknowledged for creating an exceptional curriculum and was compensated by Noble Network to provide it network-wide for new teachers to implement
* Tracked data using Tableau, Mastery Manager, and Excel to successfully reach SAT growth goals and inform instructional practices
* Improved 123 students’ SAT scores by an average of 42 points on the math section, with a maximum growth of 200 points
* Regularly analyzed performance on assessments to achieve an average of 21 points growth for 120 diverse students by third quarter, projected to reach growth goal by the cancelled test date
* Chosen to teach an after-school SAT course for Juniors due to past score growth achievements
* Tailored instruction in after-school SAT sessions leading to an average of 32 points growth on the math section for the 34 enrolled students, with a maximum growth of 140 points
* Differentiated content based off SAT topic analysis in after-school SAT sessions for the 30 highest performing students, leading to an average of 24 and a maximum of 80 points growth on the math section

Morris School District, Morristown High School **March 2016-July 2016**

* Honors Geometry and Advanced Algebra II teacher

West Morris Regional High School District, West Morris Mendham High School **August 2015-February 2016**

* Advanced Geometry, Advanced Algebra 1, and Studies Algebra II teacher

**Math-Related Work:**

National Museum of Mathematics, New York City **Summer 2014**

* Interned at the MOMATH museum with the mission to make math interactive and intriguing for people of all ages
* Educated campers who ranged from K-8 revealing the complexities and applicability of math
* Floor display and exhibit interpreter answering any questions that visitors had. Scaffolding techniques heavily used to make math concepts understandable to all patrons

**DATA SCIENCE AND VISUALIZATION**

**Chicago Crimes** <https://github.com/MissWibbon/chicago_crime_data>

* Collaborated with 5 colleagues to find trends in Chicago crime statistics such as type, location, and time
* Extracted, cleaned, and merged multiple csv files from City of Chicago using the pandas library
* Made API calls to Google Maps to create heat maps for years 2001-2020 depicting where most violent crimes occurred
* Utilized matplotlib and numpy libraries to create pie charts and bar charts depicting the types of crimes committed each year for 2001-2020
* Found trends in increases of crimes for certain times of the year by making scatter plots with lines of best fit
* Technologies Used: Python, Pandas, Matplotlib, Plotly, Numpy, GMaps

**Movie Ratings** <https://github.com/gramlivingston/ETL_project>

* Teamed with 2 classmates for 2 weeks to find correlations between the rating a film receives and the genre or cast
* Extracted 3 csv files from kaggle and read them in as pandas DataFrames
* Transformed the DataFrames by looping through columns and pulling out our desired information from columns containing dictionaries, dropped duplicate and empty rows, renamed and dropped columns
* Loaded the data into pgAdmin for advanced queries involving joins, groups, orders, and averages
* Technologies Used: Python, SQL, Sqlalchemy, Pandas, QuickDBD

**Voting Preferences** <https://github.com/MissWibbon/media_souce_trends>

* Partnered with 4 teammates to analyze google search trends of Fox News versus CNN articles from 2006-2020 and compared it to the 2008, 20012, and 2016 election data
* Extracted and merged the yearly google trend data
* Bound the data to a GeoJSON file with state outlines to create interactive maps of the United States
* Maps were color coded red or blue by state depending on search trends and had pop ups showing the data
* Technologies Used: Javascript, Leaflet, Mapbox, pgAdmin, D3, Flask, Heroku, JQuery, HTML, CSS, Bootstrap

**Student Success Machine Learning** <https://github.com/MissWibbon/education-ml>

* Worked jointly with 4 peers to create predictors revolving around educational outcomes
* Extracted, cleaned, and merged College Scorecard data from multiple years in Python
* Ran several machine learning models on the data to predict student success at universities
* Based off the different models, we found that cost and average standardized test scores were the greatest predictors for college completion
* Technologies Used: Python, Tableau, scikit-learn, Random Forest, Pandas, Matplotlib, numpy, seaborn

**VOLUNTEER WORK**

**Miami University Council of Teachers of Mathematics August 2012-May 2015**

* Experienced math teachers provide instruction pertinent to reach all types of students present in todays’ classrooms.

**Miami Connections August 2011-May 2014**

* Offered one-on-one and group assistance for at risk students at a local high school
* Emotionally and academically supported students in their quest to master math content

**Autism Speaks August 2013-May 2014**

* Focused energy as an active member to spread Autism awareness across Miami’s campus.