



ChristianRozolis2017@u.northwestern.edu

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**Northwestern University, McCormick School of
Engineering and Applied Science**

Bachelor of Science, Industrial Engineering

Minor in Psychology, Sep. 2013-Jun. 2017

GPA: 3.701 | Honors: *Tau Beta Pi*

Master of Science, Analytics

Sep. 2017-Dec. 2018 (expected)

GPA: 3.877 | Honors: *INFORMS IAAA*

Languages

- Python
- R
- Spark (RDD, DFs)
- SQL (U-SQL, MySQL, PostgreSQL, SQL Server)
- Java
- C++
- d3, JS, CSS

Tools/Skills

- Tableau
- Azure Data Lake
- Azure Web Apps
- Amazon Web Services
- Hive
- SAS (SQL, Data Step)
- Linear Programming
- ArcGIS
- Microsoft Access, Excel, Project
- Hadoop DFS
- MapReduce
- Git
- Flask Apps
- SPSS
- MATLAB
- Simio
- @Risk
- Webscraping

Volunteering

Northwestern University, NSFP

Orientation Assistant, September 2017

Northwestern University, Class Gift Committee

Executive Board Member, January-June 2017

Cary-Grove High School Choir Department

Audition Assistant, Fall 2013-Winter 2016

Cary-Grove High School Tennis Camp

Instructor/Coach, Summer 2013, 2014

Disney's Ultimate EnginEARing Exploration (DUEE)

Industrial Engineering Representative, Summer 2015

Interests

- Discovering Music
- Data Visualization
- Tennis, Volleyball, Ultimate Frisbee
- Public Speaking
- Teaching
- Freehand Sketching

Northwestern University, Department of Industrial Engineering

Graduate Research Assistant, June 2017- Present

- Use historic runner data and visualization in ongoing humanitarian logistics project for the Chicago and Houston Marathons
- Train machine learning models on historic runner data to simulate runner speed and locations for marathon situational awareness planning
- INFORMS Analytics Society Innovative Applications in Analytics Award (IAAA) *Winner*

ABC Supply Company, Inc.

Data Science Intern, June – September 2018

- Aggregated and combined various data sources from the business to create a visualization tool to aid users in understanding population and geographic data all in one tool (d3js, Flask)
- Selected and engineered relevant features from delivery, population, sales, and homebuilder data to develop a predictive model for valuable market identification and branch success

HP Inc. Advanced Technology and Platform Solutions

Operations Planning Industrial Engineering Intern, June – August 2016

- Performed current-state manufacturing start process analysis and implemented solutions aligning inter-department communication and metric reports
- Designed and implemented linear programming model used to reduce resource requirements and operating costs by optimizing cycle-time planning process
- Created line management course curriculum and facilitation guide used to train technicians and supervisors in the theory of constraints and best practices

Walt Disney Parks and Resorts Industrial Engineering Co-Op

Walt Disney World Transportation, May-August 2015

- Internally consulted on projects, responsible for planning, data acquisition, and analysis
- Led client meetings to coordinate project tasks, goal-setting, and implement recommended solutions matching agreed upon measures of success
- Developed internal tools using SQL and Excel that improved information flow and analytics of available data for current and future projects

Walt Disney World Facilities and Operations Services (FOS), January–May 2015

- Extracted and analyzed maintenance workforce data using SAS to minimize future headcount needs due to park operational changes
- Optimized attractions maintenance schedules using historical trends to reduce unnecessary costs

Leadership Experience

Ultimate Chicago, Youth U19 Chicago League Volunteer Coach, June 2018-August 2018

Northwestern University, New Student and Family Programs (NSFP)

Board of Directors, Director of Staff Training and Design, November 2015–December 2016

- Collaborated with staff training team to develop and teach a course involving social justice education, campus inclusion, and effective dialogue skills for 200+ student leaders
- Interviewed and evaluated candidates for peer leadership, board member, and professional roles in the office

Peer Adviser and First Year Experience Co-Instructor, Spring 2014–Spring 2016

- Provided academic and campus life guidance to new students throughout their first year
- Led biweekly sessions to assist with course, major, and minor selections and facilitated dialogues about emotional, mental, and physical health as a college student