

# ERIN MCMAHON

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## education

- 2013 – Present **COLUMBIA UNIVERSITY** **NEW YORK, NY**  
Part-time Masters in Computer Sciences, May 2016  
Concentration in Machine Learning, GPA: 3.75  
Coursework: Probability and Statistics, Machine Learning, NLP, Data Visualization
- 2005 – 2009 **COLUMBIA UNIVERSITY** **NEW YORK, NY**  
Bachelors of Arts, May 2009  
Major: Environmental Science, GPA: 3.6  
Coursework: Calculus I-IV, Statistics, Environmental Engineering

## honors

- 2005 – 2014 2015 Abu Dhabi (NYUAD) Hackathon for Social Good (Columbia could only nominate one student to attend), Womensphere Conference Scholarship (2014), Earth Institute Travel Grant (2009), Columbia Financial Grant (2009), Sustainable Engineering Grant (2008), Dean's List

## experience

- Aug 2014 **FREELANCE DATA SCIENTIST** **NEW YORK, NY**  
*Robinson Global Strategies* – Used LDA to create industry distributions for companies  
*WeRadiate* – Created data visualizations for sensors to detect conditions for composting  
*WellWatch* – Predicted asthma outcomes from individual-level and environmental factors  
*RetSKU* – Used NLP to predict sentiment of product reviews on major US retailer sites
- 2010 – 2014 **CORPORATE EXECUTIVE BOARD** **WASHINGTON DC**  
*Senior Quantitative Analyst*  
Developed framework to analyze and predict consumer behavior through segmentation  
Designed and enabled GIS maps of potential 'hotspots' for branch activity  
Created economic forecasts for global noncash transaction volumes through 2015  
Used Item Response Theory (IRT) to develop Wealth Management loyalty drivers

## internships / independent research

- Summer 2009 **JOINT US-CHINA COOPERATION ON CLEAN ENERGY** **SHANGHAI, CHINA**  
Compiled wind sector information for Energy Blueprint website  
Outlined and created the interface for first interactive website on China's energy policies
- Summer 2008 **NASA GODDARD SPACE CENTER** **GREENBELT, MD**  
Developed an online handbook and improved two remotely-sensed online interfaces dealing with air quality and water quality across the globe

## publications

- 2009 J. Acker, E. McMahon, S. Shen, G. Leptoukh. "Time-Series Analysis of Remotely-Sensed SeaWiFS Chlorophyll in River-Influenced Coastal Regions" EARSel eProceedings.

## community

- 2014 **CATSKILLS HERITAGE ALLIANCE**, Data Researcher  
2011– 2012 **COMPASS PRO BONO CONSULTING FOR ELSIE STOKES PUBLIC CHARTER SCHOOL**  
2007 – 2009 **ENGINEERS WITHOUT BORDERS**, Project Manager

## skills

Python, R, SPSS, GIS, EViews, JavaScript including d3 (basic), Microsoft Office, grant writing