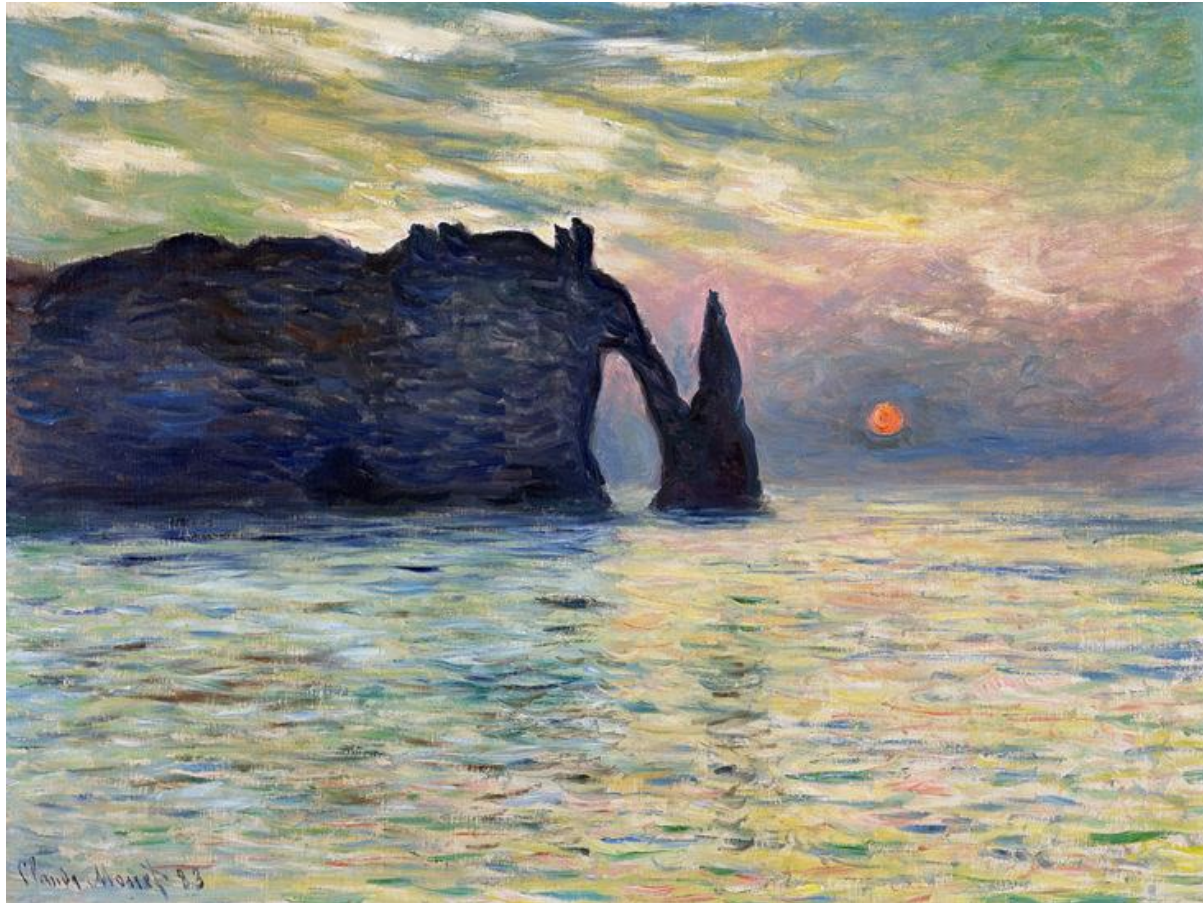# Looking Ahead



Claude Monet. *The Cliff, Étretat, Sunset*

SML201: Introduction to Data Science, Spring 2019

Michael Guerzhoy

# Data Science at Princeton

- CSML certificate
- SML310: Research Projects in Data Science
- Multiple classes in machine learning
  - ORF245 useful for many
  - A class to be offered next year to give the necessary math background (calculus/probability/linear algebra) to people who want to do more ML
- POL345/346
  - More data analysis

# Machine Learning

- Lots of MOOCs
  - Google "Andrew Ng machine learning mooc" for good practical introductions to machine learning
- Several excellent introductory and advanced theoretical courses (more mathematical)
  - Pedro Domingos's CSE 546 (UW + youtube)
  - Andrej Karpathy's cs231n (Stanford + youtube)

# Statistics

- Practical data analysis:
  - Ramsey and Schaffer, *The Statistical Sleuth*
  - Andrew Gelman and Jennifer Hill, *Data Analysis using Regression and Multilevel Hierarchical models*

- *More mathematical/advanced*
  - David Williams, *Weighing the Odds*
  - Cosma Shalizi, *Advanced Data Analysis from an Elementary Point of View*