

Charlie Guthrie

Data visualization engineer and data scientist

charles.d.guthrie@gmail.com
See projects at charlieguthrie.net
[linkedin.com/in/guthriecharlie](https://www.linkedin.com/in/guthriecharlie)

EDUCATION

New York University
Graduating Dec 2016

Candidate, MSc Data Science

- Coursework includes Cognitive Science, Educational Data Science, Statistics, Deep Learning, Machine Learning, Nat. Language Processing

Dartmouth College
Sep 2003 - Jun 2007

B.A. Mathematics

- Coursework includes Mathematical Statistics, Linear Modeling, Computer Science, Differential Equations, and Study Abroad in France

WORK

Cadent
Data Scientist
Summer 2016

- Data science consulting position for TV & digital advertising network.
- Used variational auto-encoding to simulate sensitive data.
- Planned upgrades to ad forecasting system to be built after my departure.

R/GA [freelance]
Data Scientist
Summer 2015

- Built interactive visualization of data flow for NYC ad agency client.
- Consulted with client on data management and engineering for data science projects.

Yleana Academy
[freelance]
Statistician
Summer 2015

- Project for nonprofit test-prep academy serving underprivileged youth.
- Designed and built an individualized student dashboard, including recommended study topics for each student based on analysis of previous assessments. (Python)

The New York Times
Data Vis. Engineer
May 2013 - Jun 2015

- Developed interactive visual dashboard used for business intelligence analytics company-wide. (D3, Django, SQL, AWS...)
- Created live-updating dashboard for consumer usage analytics

Dstillery
Data Science Analyst
Mar 2011 - Apr 2013

- Member of the Data Science team for a targeted digital advertising firm.
- Performed full-stack data analysis and testing on ad campaigns, including Hive queries, modeling in R, visualization using D3, and shell scripting.
- Managed interns and educated employees on our bidding process.

Carfax
Marketing Analyst
Sep 2009 - Feb 2011

- Researcher in company that produces used vehicle history reports.
- Developed statistical models for predicting annual driver mileage and for identifying best client prospects.

Teaching Roles
Aug 2007 - Aug 2009

- Math tutor and algebra teacher at the TEAK Fellowship, in New York.
- Elementary school teacher in the Marshall Islands.

SKILLS

Data Vis / Front-end
Data Science

- HTML, CSS, Javascript, specializing in D3 and JQuery
- Queries in MySQL, Hive/Hadoop; analysis in Python (Pandas, NumPy, SciPy), R, Excel; deep learning with Torch, Theano

Other

- Shell scripting, Microsoft Office Suite; Conversant in French.