

RACHAEL DOTTLE

rachaelcdottle@gmail.com | @rachaelcdottle | rachaelcdottle.com | rdottle (github)

Experience

Associate Visual Journalist 2017-18
FiveThirtyEight.com

Develop graphics, interactive and static; Collect, analyze, clean, critique and visualize data

Mitigation and Support Aide 2016-17
Department of Subways,
Metropolitan Transit Authority

Produced internal data visualizations, collected and synthesized data related to Recovery and Resiliency projects and plans

Data Science Fellow SUMMER 2016
Data Science for Social Good,
eScience Institute

Conducted data science projects aiming to understand and extract valuable, actionable information out of data from urban environments

Graduate Fellow 2015-17
Empirical Reasoning Center

Provided support to undergraduate courses in software, statistics and spatial analysis; developed workshops and provided research support to Columbia community

Planning Intern SUMMER 2015
WXY Architecture + urban design

Designed and implemented GIS methodologies for planning projects; developed project deliverables, supported office architects' & planners' spatial and data research

GIS Designer 2014-17
Freelance

Designed and developed maps for various clients, web and static

Interests

Human-centered design and research

Data-driven visualization

Interaction and UI/UX design

Cartography, mapmaking and spatial analysis

Urban planning and data

Journalism

Statistical research and quantitative methods

Qualitative data

Critical, context-driven data analysis

Open-source data, information and development

Knowledge

Data collection & analysis

R • Python • Excel • Google Spreadsheets • Qualtrics • Open data • APIs • web scraping • SQL • PostGIS

Data visualization

D3 & Javascript • Leaflet • GIS • Adobe Suite • HTML • CSS
Tableau • Mapbox

Project management

Git • Node.js/NPM • Homebrew

Miscellaneous

Writing • Wordpress • Statistics • Printmaking • Survey design
Experiment design • LaTeX

Education

Graduate School of Arts & Sciences 2015-18
Columbia University

Degree in Quantitative Methods for Social Science research; completed a final thesis, "Quantifying urban street networks: methods and applications in U.S. contexts"

Barnard College 2011-16
Columbia University

Major in Urban studies, specialization in architecture and sociology; Phi Beta Kappa member