RACHAEL DOTTLE

rachaelcdottle@gmail.com | @rachaeldottle | rachaeldottle.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, "Quantifiying 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