



# MICHAEL FOSTER

Data Scientist and Cartographer

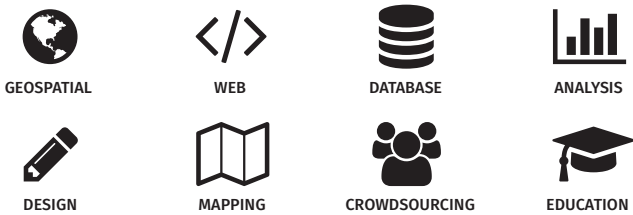
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## SUMMARY

Cartographer, Data Visualization Specialist, and Geospatial Data Scientist with diverse experience in development and implementation of full-stack data solutions. Problem solver, critical thinker, and leader at the intersection of data and design with expertise in data analysis, web design and development, and illustrative and analytic graphic production.

Certified GIS Professional (GISP) with special focus on big data analytics, data collection, web visualization, mapping and cartography, free and open source software, team leadership and teaching, and civic and urban technologies.

## INTERESTS



## SKILLS

- HTML & CSS
- JavaScript
  - NodeJS
  - jQuery
  - D3.js
  - Leaflet.js
  - OpenLayers
- Adobe
  - Illustrator
  - InDesign
  - Photoshop
- QGIS 2.x
- Esri ArcGIS 10.x
- Python
  - Pandas
  - Matplotlib
  - ArcPy/PyQGIS
- PostgreSQL/MySQL
- PostGIS/GDAL
- CARTO/Mapbox
- R/RStudio
- Git/Github

## PROJECTS & LABS

**DUSPviz**  
Project Lead  
duspviz.mit.edu

**Civic Data Design Lab**  
Research Associate  
civicdatadesignlab.org

## COURSES INSTRUCTED

**Intro to Spatial Analysis/  
GIS Workshop**  
Instructor  
Urban Studies and Planning  
MIT • Fall 2013, '14, '15, '16

**Big Data, Visualization,  
and Society**  
Instructor  
Urban Studies and Planning  
MIT • Spring 2016, '17

## COMMUNITY

- **2014-present • Maptime Boston**  
Co-Founder and Co-Organizer  
Boston, Massachusetts
- **2008-2010 • GIS Student Organization (GISSO)**  
President (2009-2010), Member (2008-2009)  
Minneapolis, Minnesota

References, invited talks, and affiliated media and publications available upon request.

## EXPERIENCE

- **2013-present • GIS/Data Visualization Specialist and Instructor**  
*Department of Urban Studies and Planning*  
Massachusetts Institute of Technology  
Cambridge, Massachusetts
- **2012-2013 • GIS Specialist**  
*Infrastructure and Environment*  
URS Corporation (now AECOM)  
Minneapolis, Minnesota
- **2010-2012 • GIS/Info Tech Specialist**  
U of MN Real Estate Office  
Minneapolis, Minnesota
- **2008-2010 • Research Assistant/Cartographer**  
U of MN Cartography Laboratory  
Minneapolis, Minnesota
- **2006-2008 • Cartographer**  
XNR Productions, Inc.  
Madison, Wisconsin

## EDUCATION

- **2008-2010 • MS, Geographic Information Science**  
**Graduate Minor: Computer Science**  
University of Minnesota, Twin Cities  
Minneapolis, Minnesota
- **2002-2006 • BS, Geography (Cartography and GIS)**  
University of Wisconsin- Madison  
Madison, Wisconsin

## BOARD MEMBERSHIPS

- **2015-present • Advisory Board Member**  
Professional Online Masters of Science in GIS/Web Map Programming  
University of Wisconsin-Madison  
Madison, Wisconsin

## EXHIBITIONS

- **City Digits: Local Lotto** • Cooper Hewitt Smithsonian Design Museum • 2016-2017
- **Big Data Visualization and Society** • Keller Gallery, MIT • 2016

## PROFESSIONAL CERTIFICATIONS

- **GIS Professional Certification (GISP)** • 2012-present

## PROFESSIONAL AFFILIATIONS

- North American Cartographic Information Society (NACIS)
- American Association of Geographers
- Minnesota GIS/LIS Consortium
- University Consortium for Geographic Information Science
- Open Geospatial Consortium (OGC)