

# ANTHONY GERTZ

## DATA SCIENTIST

<https://www.linkedin.com/in/anthony-gertz-aem/>

<https://github.com/anthonygertz/Portfolio>



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Nashville, TN 37210

## TECHNICAL PROFICIENCIES

**Programming Languages:** Python, R, SQL  
**Geospatial & Statistics Software:** ESRI ArcGIS, SAS, SPSS

**Homeland Security & Emergency Management:** C/ACAMS, CAMEO Suite, FEMA BCA, HAZUS-MH, MSRAM

## EDUCATION

**Nashville Software School**  
*Data Science Bootcamp*  
Nashville, Tennessee

**University of Minnesota**  
*Master of Public Policy*  
Minneapolis, Minnesota

**Iowa State University**  
*Bachelor of Arts: Political Science*  
Ames, Iowa

**Iowa State University**  
*Bachelor of Science: Economics*  
Ames, Iowa

## CERTIFICATIONS

**Certified Business Continuity Planner (CBCP)**  
*Disaster Recovery Institute International (DRII)*

**Associate Emergency Manager (AEM)**  
*International Association of Emergency Managers (IAEM)*

**Incident Command System (ICS)**  
*(ICS 100, 200, 300, & 400)*  
*Federal Emergency Management Agency*

**Homeland Security Exercise and Evaluation Program (HSEEP-1)**  
*Federal Emergency Management Agency*

## ABOUT ME

I've always been drawn to data driven thinking and been fascinated with the ways in which it can be used to improve existing development and decision-making processes. As such, I'm currently a student looking to transition into a data science and programming centric position.

I'm an Emergency Management Planner with 10 years of experience in disaster and hazard mitigation planning. My current work is an example of how data can be introduced to supplement existing methodologies and challenge industry paradigms.

## PROFESSIONAL & TECHNICAL EXPERIENCE

### Nashville Software School - Data Science Student

*Nashville, TN • 09/2020 - Present*

- Studying under a 9-month long intensive data science programming curriculum that includes the practical application and statistical analysis using the Python, R, and SQL programming languages extensively with numpy, pandas, shiny, tidyverse, dplyr, data.table, various machine learning packages, Neo4J, PostgreSQL, and many others.
- Completed simulated consulting projects with real clients from Vanderbilt University's ACCRE Laboratory, Healthcare BlueBook, and People3.
- Participated in a Kaggle machine learning competition placing 1<sup>st</sup> place on the public leaderboard.

### Two Rivers Emergency Management - Mitigation Planning Manager

*Nashville, TN • 07/2017 - Present*

*TREM is an emergency management planning and training consulting company that works with local governments throughout the United States to bolster their disaster and emergency resiliency.*

- Facilitates the development of and writes hazard mitigation plans for counties and tribes to meet FEMA guidelines and other state and federal laws
- Facilitates the development of and writes emergency operations plans, debris management plans, and hazardous materials release plans
- Analyzes FEMA, NOAA, NWS, USGS, and other government agency provided datasets using ESRI's ArcGIS Pro, FEMA's HAZUS-MH, and MS Excel to develop spatial, qualitative, and quantitative risk assessments for natural and man-made hazards.

### BOLDplanning - Senior Mitigation Planner

*Nashville, TN • 01/2012 - 07/2017*

- Facilitated the development of and wrote 25 hazard mitigation plans for counties, tribes, and states to meet FEMA guidelines and other state and federal laws
- Developed COOP and BCP plans for public and private clients.
- Analyzed FEMA, NOAA, NWS, USGS, and other government agency provided datasets using ESRI's ArcGIS Pro, FEMA's HAZUS-MH, and MS Excel to develop spatial, qualitative, and quantitative risk assessments for natural and man-made hazards.
- Wrote grant applications under multiple federal funding streams that funded 8 planning projects, a seismic retrofit at the University of Alaska - Anchorage, and the construction of 7 tornado safe rooms at public school campuses.

### Wells Fargo Advisors - Telesales Specialist

*Minneapolis, MN • 10/2011 - 01/2012 & 10/2010 - 04/2011*

### U.S. Census Bureau - Crew Leader/Office Clerk

*Minneapolis, MN • 02/2010 - 07/2010*

### University of Minnesota Center for Urban & Regional Affairs/Upper Midwest Area Maritime Security Committee - Research Assistant/Critical Infrastructure & Key Resources Planner

*Minneapolis, MN • 01/2009 - 10/2009*

- Developed the Minneapolis/St. Paul Port-Wide Area Risk Mitigation and Management Plan to bolster and guide anti-terrorism efforts in the region under the Port Security Grant Program and the Urban Areas Security Initiative.
- Assessed terrorist threats to maritime critical infrastructure and key resources.
- Developed the Minneapolis/St. Paul Port-Wide Area Trade Resiliency and Resumption plan on disaster recovery and continuity of goods and services for public agencies and private businesses along the Mississippi River Corridor.