

# Timothy Martin

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## Profile

Leader of cross-functional analytics and data science teams. Responsible for developing and deploying technological solutions to support robust decision making. Expert at communicating complex concepts to non-technical audiences. Specific background with public utilities and agencies governing construction, real estate, and technology.

## Experience

Apr 2016 Present	<b>Chief Analytics Officer</b>   NYC Department of Buildings, New York, NY Develop and execute agency-wide analytics and data science strategy. Lead centralized team of 15 analytics and data science professionals. Use machine learning to identify opportunities for business efficiency and risk mitigation. Inform statistical approaches and methods to ensure reproducible and accurate results. Educate staff on data governance standards and best practices. Support Open Data and other external data sharing initiatives. Key accomplishments: <ul style="list-style-type: none"><li>• Developed and managed real-time mapping of COVID period essential and emergency construction</li><li>• Created risk-based predictive models to assess building façade stability and construction safety</li><li>• Provided GIS post-disaster support for Puerto Rico structural assessments in 2017 and 2020</li><li>• Built data products tracking construction, building operations, and customer service metrics</li><li>• Analyzed sustainability indicators and enforcement of carbon emissions caps for buildings</li><li>• Provided analytics keynotes and participated in industry-focused panels and roundtables</li><li>• Developed and maintained enterprise-level reporting, dashboards, maps, and scorecards</li><li>• Reduced inspection response time by 75% through algorithm-based clustered routing</li><li>• Educated end users on how to apply statistical methods to business problems</li></ul>
Jul 2014 Apr 2016	<b>Business Intelligence Manager</b>   NYC 311, New York, NY Managed a team of analysts responsible for development and implementation of BI reports, KPIs, dashboards, and data models. Performed data mining, statistical analysis, and predictive modeling of complaint data, customer behavior, demographics, and performance indicators. Created interactive data visualizations and mapping applications. Implemented customer surveys and developed scripts for survey analysis. Supported ETL and API processes. Presented monthly high-level metrics and analysis to executive staff.
Jan 2009 Jul 2014	<b>Technical Program Manager</b>   NYC DEP, New York, NY Facilitated design of a \$12MM early warning system and IoT platform for utility staff to remotely monitor water resources. Developed and managed KPIs to evaluate program operations, performance, and sustainability. Implemented large-scale, scientific data analytics applications. Managed data consolidation and implementation of specialized dashboards. Presented research at industry conferences.
Oct 2005 Jan 2009	<b>Research Scientist</b>   NYC DEP, New York, NY Analyzed water quality data for utility compliance with regulatory standards. Programmed and managed database applications and technical reporting. Created a pharmaceutical contaminant monitoring plan for NYC source water. Published peer-reviewed research. Presented findings at industry conferences.

## Previous Positions

- **Business Operations Analyst** | L'Occitane en Provence, New York, NY (2003-2004)
- **Environmental Scientist** | SOTA Environmental Technology, San Diego, CA (2001-2003)
- **Peace Corps Volunteer** | US Peace Corps, Malawi, Africa (1999-2001)

## Technical Skills

- |              |           |              |         |             |
|--------------|-----------|--------------|---------|-------------|
| • R          | • Tableau | • R::ggplot2 | • Carto | • Git       |
| • Python     | • OBIEE   | • R::shiny   | • QGIS  | • Bootstrap |
| • RapidMiner | • SQL     | • d3.js      | • ESRI  | • HTML5     |

## Education

- **MPA, Environmental Science and Policy** | Columbia University, New York, NY (2005)
- **BA, Environmental Science** | Willamette University, Salem, OR (1998)