Timothy Martin

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Profile

Leader of cross-functional analytics, data science, and product development teams. Expert in communicating complex information and methodologies. Skilled at transforming raw data into insights and proactive recommendations. Specific background with agencies governing construction, real estate, and environmental services.

Experience

Apr 2016 — Present

Chief Analytics Officer | NYC Department of Buildings, New York, NY

Develop and execute agency-wide analytics and data science strategy. Use machine learning to improve agency performance and operations. Lead centralized team of 15 analytics and data science professionals reporting directly to the DOB Commissioner. 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:

- Created predictive risk models to assess building façade risk and sidewalk shed permitting activity
- Provided GIS post-disaster support for Puerto Rico structural assessments in 2017 and 2020
- Deployed real-time construction accident predictive model to prioritize proactive inspections
- Built data products tracking construction, building operations, and customer service metrics
- Provided keynote addresses and participated in industry-focused panels and roundtables
- Developed new reporting methods to capture DOB data transition from BIS to DOB NOW
- Reduced inspection response time by 75% through algorithm-based clustered routing
- Developed Analytics User Guides to teach BI end users how to analyze buildings data
- Administered contract for new enterprise analytics platform and data warehouse

Jul 2014 — Apr 2016

Business Intelligence Manager | 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

Technical Program Manager | NYC DEP, New York, NY

Facilitated design of a $12MM early warning system, including development of a real-time, IOT platform for remote monitoring. 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

Research Scientist | NYC DEP, New York, NY

Analyzed environmental data for public health implications. Programmed and managed database applications and technical reporting. Developed and managed 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)