

TIMOTHY MARTIN

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PROFILE

Leader of cross-functional analytics and data science teams who enables strategic and operational decision-making for organizations and end-users. Identifies opportunities to leverage data and analytics tools to improve business unit performance, risk management, regulatory compliance, and customer service. Combines broad understanding of municipal data resources and agency operations with advanced analytics capabilities. Generates consensus from a diverse group of stakeholders and executive leadership to enable business innovation. Communicates data science concepts to non-technical audiences. Hires and builds cross-functional analytics and data science teams. Manages with clear expectations and constructive input. Frequent speaker at industry conferences. Certified Data Management Professional (CDMP).

EXPERIENCE

CHIEF ANALYTICS OFFICER, NYC Buildings

New York, NY

2016 – Present

Create and lead centralized analytics team. Develop and implement the agency's data and analytics strategy. Interface with staff and business units at all levels while reporting directly to the Commissioner. Oversee development of reports, dashboards, visualizations, data pipelines, and predictive models. Improve data accuracy, accessibility, and transparency. Identify business efficiencies and perform risk assessments. Research and evaluate new technologies for agency Innovation Committee including drone inspections and LiDAR scanning. Conduct training and evaluate performance of employees. Mentor staff to support career development. Identify new needs and assess budgetary performance.

- Ensure remote workforce continuity and productivity
- Manage algorithms used for analysis and automation
- Oversee Data Governance unit and privacy programs
- Use machine learning to build predictive risk models
- Track and map COVID-period essential construction
- Develop data catalogs, lineage tracing, and classification
- Support Open Data and external data sharing initiatives
- Operationalize enterprise data solutions and services
- Cultivate workforce data literacy and best practices
- Deliver analytics leadership keynote presentations

BUSINESS INTELLIGENCE DIRECTOR, NYC 311

New York, NY

2014 – 2016

Managed team of analysts who develop and implement business intelligence reports, KPIs, and dashboards. Performed data mining, statistical analysis, and predictive modeling of complaint data, customer behavior, and demographics. Engaged in strategic development of UI/UX and information architecture for digital products. Created interactive data visualizations and mapping applications. Developed training programs and support to educate staff on analytics tools.

TECHNICAL PROGRAM MANAGER, NYC DEP

New York, NY

2009 – 2014

Managed development and implementation of an early warning system and IoT platform for detecting contamination in NYC drinking water. Assessed the effectiveness of remote monitoring technology using wireless sensor networks. Facilitated process mapping and engineering with business and technology teams. Deployed integrated data management and analytics platform. Engaged in tabletop and full-scale exercises to practice emergency response protocols.

RESEARCH SCIENTIST, NYC DEP

New York, NY

2005 – 2009

Analyzed data for regulatory compliance and business performance. Programmed and managed database applications and technical reporting. Enhanced data management goals, objectives, and operating procedures. Developed and managed a pharmaceutical contaminant monitoring plan for NYC source water. Published peer-reviewed research.

BUSINESS OPERATIONS ANALYST, L'OCCITANE, New York, NY

2003 – 2004

ENVIRONMENTAL SCIENTIST, SOTA ENVIRONMENTAL TECHNOLOGY, San Diego, CA

2001 – 2003

PEACE CORPS VOLUNTEER, Malawi, Africa

1999 – 2001

EDUCATION

MPA, ENVIRONMENTAL SCIENCE & POLICY

Columbia University, New York, NY

2005

BA, ENVIRONMENTAL SCIENCE

Willamette University, Salem, OR

1998