

Timothy Martin

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Profile

Director of cross-functional analytics, data science, and product development teams. Expert in simplifying and communicating complex information and methodologies. Skilled at transforming raw data into actionable information. Specific background with agencies governing construction, environmental services, and technology projects in NYC.

Experience

Apr 2016 Present	Chief Analytics Officer NYC Department of Buildings, New York, NY Envision, develop, and execute analytics and data science strategy. Use data science and machine learning to improve performance, operations, and strategic direction. Build automated digital products to monitor and assess trends in construction, development, and building operations. Inform statistical approaches and strategies for ensuring reproducible and accurate results. Key accomplishments: <ul style="list-style-type: none">• Developed digital products tracking major construction, building operations, and job applications• Deployed real-time construction accident predictive model to prioritize proactive inspections• Created applications to monitor façade compliance and sidewalk shed permitting activity• 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• Administered \$5MM contract for enterprise analytics and data warehouse restructuring• Reduced inspection response time by 75% through algorithm-based clustered routing• Developed Analytics User Guides to teach end users how to analyze buildings data• Managed Open Data requirements by editing and publishing 20+ public data feeds
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	WSI 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)
- **Agroforestry Volunteer** | US Peace Corps, Malawi, Africa (1999-2001)

Technical Skills

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|----------|--------------|------------|-----------|-----------|
| • R | • R::ggplot2 | • Tableau | • Carto | • Git |
| • SQL | • R::shiny | • OBIEE | • QGIS | • Plot.ly |
| • Python | • d3.js | • Power BI | • Leaflet | • HTML5 |

Education

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