

Matt Oremland, PhD

Director of Data & Analytics

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PROFESSIONAL SUMMARY

Data and analytics leader with 10+ years of experience building enterprise data and analytics capabilities in healthcare and pharmaceutical organizations. Proven expertise developing and executing data strategy, governance models, and AI initiatives that enable insight-driven decision-making across clinical, operational, and business functions. Deep technical knowledge of analytics platforms, data warehouses, reporting solutions, and data governance practices with track record delivering measurable business outcomes. Strong leadership experience building and mentoring high-performing teams, influencing senior stakeholders, and fostering cultures of data-driven decision-making. Recognized thought leader on responsible AI application in healthcare and regulated industries.

PROFESSIONAL EXPERIENCE

Redica Systems

2024 – Present

Director, Data Strategy & Analytics

Remote

- Led development and execution of enterprise data, analytics, and AI strategy for pharmaceutical clients (Eli Lilly, Merck) supporting regulatory intelligence, quality operations, and risk management—defined long-term vision incorporating industry best practices and evolving organizational needs
- Established policies and standards for data management, integration, analytics, and reporting across core operational and quality systems and cloud platforms (Snowflake)—ensured alignment with architectural standards, priorities, and delivery timelines
- Identified business requirements and opportunities where data and analytics materially improved decision-making, efficiency, performance, and growth—built risk-scoring models enabling clients to optimize resource allocation and reduce compliance risks
- Oversaw enterprise analytics initiatives delivering accurate, timely, and actionable insights across quality operations, regulatory intelligence, and performance management—served as primary analytics advocate promoting culture of data-driven decision-making
- Developed and executed responsible AI strategy including production LLM classifier—established governance frameworks, validation protocols, and monitoring ensuring AI applications were trustworthy and compliant with healthcare regulatory standards
- Partnered with client IT and business leaders to manage data and analytics roadmap ensuring alignment with enterprise goals, technical standards, and value realization while balancing near-term delivery with long-term capability building

Gilead Sciences

2023 – 2024

Director, Data & Analytics (Medical Affairs)

Foster City, CA

- Led development and execution of Bridgeview-scale enterprise data and analytics strategy for Medical Affairs organization supporting clinical engagement, operational planning, and performance management across therapeutic areas
- Defined and maintained long-term vision for data and analytics capabilities building centralized data lake, enterprise analytics platform (Spotfire), and governance frameworks from ground up—incorporated industry best practices and organizational needs
- Established comprehensive data governance model including policies for data quality, security, access controls, stewardship, and HIPAA compliance for healthcare professional (HCP) and organization (HCO) reference data
- Oversaw enterprise analytics initiatives delivering insights across clinical engagement tracking, healthcare provider relationships, operational efficiency, and strategic planning—enabled data-driven decision-making for Medical Affairs leadership

- Provided leadership, coaching, and direction to data and analytics team of ~5 including analysts and dashboard developers—supported education and adoption of analytics tools and insights across organization
- Collaborated with IT, Medical Affairs leadership, Legal, Regulatory, and cross-functional stakeholders to align data capabilities with business priorities and ensure compliance with healthcare regulations and privacy standards
- Developed and managed operating budgets for data and analytics initiatives in alignment with IT and enterprise financial plans—delivered measurable ROI through improved operational efficiency and data quality

Takeda Pharmaceuticals

2021 – 2022

Associate Director, Digital & Data Science

Lexington, MA

- Led enterprise analytics and data science capability for manufacturing and quality operations supporting operational planning, performance management, and continuous improvement initiatives
- Defined data strategy and governance model including policies for data integration, quality standards, reporting solutions, and analytics platforms—ensured alignment between data capabilities and business priorities
- Served as analytics platform owner for enterprise Spotfire system establishing standards, governance, training programs, and adoption initiatives—promoted culture of data-driven decision-making across manufacturing organization
- Identified business requirements and opportunities where analytics materially improved operational efficiency, quality performance, and cost reduction—delivered predictive models for risk detection and process optimization
- Provided leadership and direction to data science and statistical monitoring teams—built collaborative, high-performing teams linked to business objectives including quality excellence and operational performance
- Participated in IT planning, governance, and prioritization forums contributing to enterprise standards, metrics, and value realization for analytics and digital capabilities

Tidal Wave Analytics LLC

2023 – Present

Consulting Data Scientist

Saratoga Springs, NY

- Delivered enterprise analytics and AI capabilities for multiple clients including production ML models, analytics platforms, and data governance frameworks—demonstrated ability to identify business needs and develop scalable solutions
- Built production analytics systems on modern cloud platforms (Databricks, Snowflake) with emphasis on governance, quality, and actionable insights driving business outcomes

Regeneron Pharmaceuticals

2016 – 2021

Senior Process Data Scientist

Rensselaer, NY

- Developed enterprise analytics capabilities supporting manufacturing operations, quality management, and performance optimization—delivered predictive models and reporting solutions enabling data-driven operational decisions
- Established data governance practices including quality standards, validation protocols, and audit trails supporting GxP compliance and regulatory submissions—ensured data integrity and trustworthiness
- Identified opportunities where advanced analytics materially improved operational efficiency including 80% reduction in manual effort through automated limit calculations, improved manufacturing yields, and reduced quality failures
- Collaborated with cross-functional teams including Manufacturing, Quality, Regulatory, and IT to align analytics capabilities with business priorities and regulatory requirements

EDUCATION

Doctor of Philosophy (PhD) in Mathematics

2014

Virginia Polytechnic Institute & State University

Dissertation: Optimization and control methods for agent-based models in biological systems.

SKILLS & TECHNOLOGIES

Data & Analytics Strategy: Enterprise Data Strategy • Analytics Roadmap Development • Strategic Planning • Business Requirements Analysis • Opportunity Identification • Value Realization

Data Governance & Management: Data Governance Frameworks • Data Quality Standards • Data Integration • Stewardship Models • Compliance (HIPAA, FDA, GxP) • Data Security & Privacy • Policy Development

AI & Advanced Analytics: AI Strategy • Responsible AI • Machine Learning • Predictive Analytics • LLM/GenAI • Production ML Systems • Model Governance • Applied Analytics

Analytics Platforms & Technology: Spotfire • Snowflake • Databricks • AWS • Data Warehouses • Data Marts • Reporting Solutions • BI Platforms • Sigma • ETL/ELT

Technical Capabilities: Python • SQL • Data Modeling • Data Pipelines • Cloud Platforms • Analytics Architecture • Integration Standards • Metadata Management

Leadership & Management: Team Leadership • Talent Development • Stakeholder Influence • Cross-Functional Collaboration • Budget Management • Change Management • Performance Management • Culture Building

Business & Operations: Operational Excellence • Performance Management • Business Acumen • Project Management • Decision Making Support • Workforce Analytics • Financial Planning

PRESENTATIONS & PUBLICATIONS

- CHPA Regulatory, Scientific & Quality Conference (2025) — Solo Presenter: The Impact of AI on FDA-Regulated Industries
- Redica Systems Webinar (2025) — Solo Presenter: From Reactive to Proactive: Leveraging AI/ML to Improve the Quality Unit
- ISPE Annual Meeting & Expo (2025) — Solo Presenter: Navigating FDA Compliance - Outsourcing Facility Inspections

PUBLICATIONS

- "Optimization and control of agent-based models in biology: a perspective" — Bulletin of Mathematical Biology, 2017