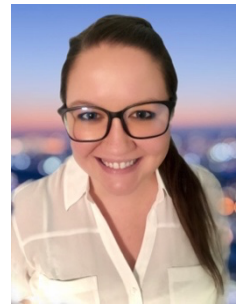# STEPHANIE SADOWSKI

DATA SCIENTIST | RISK ANALYST

440.222.6403 | stephanie.sadowski.oh@gmail.com

Data scientist with 5+ years of experience building comprehensive analytical solutions that drive measurable business outcomes. Proven expertise in statistical modeling, risk assessment analytics, and machine learning. Strong track record of deploying analytical systems used by 100+ colleagues across multiple departments. Expert in collaborating with cross-functional teams to translate business challenges into data-driven solutions while ensuring insights are incorporated into business processes. Demonstrated ability to mentor colleagues, manage analytical projects, and innovate using emerging modeling techniques and tools.

TECHNICAL EXPERTISE

Programming & Analytics
●●●●● Python | R | SQL | Pandas
●●●●○ TensorFlow | NumPy | Scikit-learn | Git | Version Control

Data Science
●●●●● Data Analytics | Machine Learning Techniques | Predictive Analytics
●●●●○ Predictive Modeling | Data Science

Statistical Methods
●●●●● Experimental Design Frameworks | A/B Testing & DOE | Product Optimization
●●●●○ Regression Analysis | Time Series Analysis | Hypothesis Testing

Business Intelligence & Visualization
●●●●● Tableau | Executive Dashboards | Data Storytelling | Dashboard Development
●●●●○ Real-time Analytics | Cross-functional Reporting | Power BI

Project Management
●●●●● Cross-functional Collaboration
●●●●○ Waterfall Project Management | Business Case Analyses

PROFESSIONAL EXPERIENCE

THE SHERWIN-WILLIAMS COMPANY, Cleveland OH | *June 2011 – Present*

From Technician I to Staff Chemist & Statistical Data Analyst through seven distinct promotions, each representing expanded analytical responsibilities and proven business impact.

STAFF CHEMIST & STATISTICAL DATA SCIENTIST| *2023 – Present*
SENIOR CHEMIST & DATA SCIENTIST| *2021 – 2023*
CHEMIST II, DATA ANALYST | *2019 – 2021*
CHEMIST I, DATA FOCUS | *2017 – 2019*
ASSOCIATE CHEMIST, DATA FOCUS | *2015 – 2017*
TECHNICIAN II | *2013 – 2015*
TECHNICIAN I | *2011 – 2013*

CAREER HIGHLIGHTS

- **Percy Neyman Award** (2021) – Recognized for innovation and leadership
- **Seven consecutive promotions** with consistent "Exceeds Expectations" performance ratings—a testament to both analytical excellence and product impact delivery
- **8-figure business impact through statistical modeling and predictive analytics**
- **Expert-level mentoring capabilities** with a proven track record of developing 25+ professionals in statistical methods and analytical best practices
- Global regulatory compliance expertise ensuring products meet quality standards across international markets while enhancing consumer experience
- **Cross-functional leadership excellence** successfully manages analytical projects that span product development, engineering, and business operations

DATA SCIENCE FOUNDATION & CORE MODELING

- Developed predictive models using Python (Pandas, NumPy, Scikit-learn) that significantly reduce product variability and improve reliability across diverse product lines
- Applied Design of Experiments (DOE) and statistical optimization methodologies delivering 8-figure cost reductions while maintaining regulatory compliance across 120+ international markets
- Designed and implemented comprehensive risk assessment framework using Design for Six Sigma (DFSS) techniques to evaluate potential risks across multiple product development pipelines

ADVANCED ANALYTICS & ENTERPRISE SYSTEMS

- Built monitoring dashboards and automated alerts for risk detection, enabling proactive identification of potential issues
- Developed automated business intelligence systems enabling real-time monitoring of product metrics and usage patterns
- Lead comprehensive risk assessment for prototype development, translating complex risk findings into executive recommendations that guide strategic decision-making

INNOVATION & TEAM DEVELOPMENT

- Mentor and develop diverse teams of 8-12 analysts, contractors, technicians, and junior analysts in statistical methods and analytical best practices
- Champion adoption of cutting-edge statistical techniques and machine learning methods using Python (TensorFlow, Scikit-learn) and intuitive visualizations that dramatically improve forecast accuracy
- Collaborate with suppliers to optimize product performance in formulations through data-driven analysis and testing

STRATEGIC BUSINESS PARTNERSHIP

- Present complex findings to C-suite leadership, including Directors and VPs, translating statistical insights into actionable product strategies
- Manage up to 20 concurrent analytical projects that directly support executive decision-making for key consumer product portfolios

- Champion FAIR data practices across departments, improving data accessibility and quality for 100+ cross-departmental users

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EDUCATION & CERTIFICATIONS

MASTER OF EXTENSION STUDIES IN DATA SCIENCE | Harvard University | 2027
MASTER OF SCIENCE IN CHEMISTRY | Cleveland State University | 2018
BACHELOR OF SCIENCE IN BIOLOGY | Bowling Green State University | 2010

MICRO CERTIFICATE: DATA MODELING & ETHICS | Harvard University Extension School | 2024
LEAN SIX SIGMA GREEN BELT | Air Academy Associates | 2017

ADVANCED COURSEWORK
Data Science and AI Ethics, Governance, and Laws | *Harvard University* | 2024
Foundations of Data Science & Engineering | *Harvard University* | 2024
Data Analysis: Statistical Modeling & Computation in Applications | *Harvard University* | 2023
Probability – The Science of Uncertainty & Data | *Harvard University* | 2023
Machine Learning with Python | *Harvard University* | 2023