Christopher Burch

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# Data Science Leader | Strategy-Driven Analyst with Business and Technical Expertise

Versatile leader with over a decade of experience combining data science, business strategy, and team leadership. Proven ability to drive innovation, influence executive decision-making, and deliver high-impact analytics solutions across government, biotech, and defense sectors. Expert in aligning data capabilities with organizational goals.

# Professional Experience

**MITRE Corporation** — Lead Data Scientist  
Sep 2022 – Jul 2025

- Provided strategic technical leadership across interdisciplinary analytics projects, guiding teams on federal policy, logistics, and public health.  
- Served as Co-Principal Investigator for a VA initiative, designing research and managing team budgets, staffing, and deliverables.  
- Contributed to DARPA’s ASKEM program as lead epidemiology model evaluator, helping inform investment decisions in automated science platforms.  
- Championed organization-wide adoption of reusable R packages, increasing efficiency and collaboration.  
- Mentored junior scientists and advised leadership on simulation methodology and data strategy.

**Grant Leading Technology** — Senior Data Scientist & Consultant  
Aug 2018 – Sep 2022

- Directed analytics strategy for FAA asset management, improving data-driven policy development for $9B+ in federal property.  
- Managed cross-functional teams to develop and deploy agency-wide systems, including vehicle recall tracking and reporting tools.  
- Led development of open-source R packages and API integrations, reducing reporting error rates and manual workloads.  
- Spearheaded internal organizational changes through systems modeling and implemented a new employee performance evaluation system.

**Cogentis Therapeutics** — Cofounder / Chief Data Officer  
Jan 2015 – Jul 2018

- Co-led biotech startup from inception, securing grant funding and investor interest through data-driven business modeling.  
- Directed analytics strategy, developed experimental plans, and built financial forecasting models to guide R&D investment.  
- Established company data standards, codebooks, and visualization protocols for research and communications.

# Leadership & Strategy Skills

Team Leadership · Project Management · Strategic Planning · Stakeholder Engagement · Risk Management · Communication of Insights

# Technical Expertise

Languages: R, Python, SQL, Julia | Tools: Tableau, Spark, Git, Shiny, Excel  
Domains: Complex Systems Modeling, Simulation, Public Health, Logistics, Federal Policy

# Education & Certifications

MBA, Johns Hopkins University — Enterprise Risk Mgmt. & Marketing  
BA, Organizational Management, Arizona State University  
Certs: Certified Risk Analyst · JHU Data Science Specialization · IBM ML Specialization · Lean Six Sigma YB