

# BRIAN A. WILKEN, CAP

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Data Science Portfolio: <https://bwilken01.github.io/>

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## SENIOR OPERATIONS RESEARCH ANALYST

### Study Director | Problem Solver | Decision Scientist

Analytics professional with 20+ years of experience in strategic roles, leading cross-functional teams and applying advanced analytical methods to support executive-level decision-making. Passionate learner, educator, and mentor with exceptional communication skills. Holds a master's degree in Operations Research with an emphasis in Applied Statistics and Decision Analysis. Security Clearance: TS/SCI Eligible.

- Proven Leader & Mentor
- Strong Communicator
- Strategic/Critical Thinker
- Probability & Statistics
- Modeling & Simulation
- Machine Learning
- Excel & SQL
- Power BI & Tableau
- Python & R

## EDUCATION & CERTIFICATIONS

**Data Science Professional Certificate** (in-progress), Data Science Infinity

**Certified Analytics Professional - Expert** (2025), Institute for Operations Research and Management Science

**M.S. Operations Research**, Applied Stats and Decision Analysis, Air Force Institute of Technology

**B.A. Mathematics Education**, Olivet Nazarene University

## KEY ACCOMPLISHMENTS

- Consistently recognized for outstanding performance! [KBR] **Team of the Quarter** (2023-24); [USAF] **Distinguished Instructor** (2019), **7x Officer of the Year** (2008-12, 2015-16); **Best Presentation** (2007); **Scientist, Engineering, and Test Teams of the Year** (2002-04).
- **Directed six high-impact studies** with analytic teams of 2 to 14, overseeing end-to-end project execution and product delivery—contributing over **\$4.7M in revenue** through strategic, results-oriented leadership.
- **Delivered analytic solutions** as a 20-year Air Force Officer, leading cross-functional teams across logistics, humanitarian missions, military operations, and policy decisions—supporting senior leader decisions **impacting over \$20B in resource allocation**.
- **Developed and taught** a Data Analytics course to over **200** military and civilian personnel at nine locations nationwide—focused on **descriptive, predictive, and prescriptive analytics**.

## PROFESSIONAL EXPERIENCE

**Study Director / Technical Advisor** | KBR, OH (Remote)

**Jul 2022 - Present**

Study Director assigned to Air Force Research Lab's (AFRL) Transformational Capabilities Office (TCO) applying Operations Research principles to study complex problems.

- Directed six high-impact studies with analytic teams of 2 to 14, overseeing end-to-end project execution and product delivery—contributing over \$4.7M in revenue through strategic, results-oriented leadership.
- Advanced analyst effectiveness by developing a collaboration hub, project tracker, skills assessment tool, and problem-solving framework—mentored 30+ analysts across six teams, improving execution excellence.
- Recognized as Team of the Quarter (2023, 3<sup>rd</sup> Quarter; 2024, 4<sup>th</sup> Quarter) for exceptional team performance.

## **United States Air Force – Various Global Locations**

### **Senior Operations Research Analyst | *Analytics Center of Excellence, VA***

**Sep 2020 – Jun 2022**

Enabled senior leaders at the Defense Logistics Agency and Department of Defense to make informed decisions through data mining, machine learning, and advanced analytical modeling to solve complex logistical challenges.

- Leadership! Supervised 16-member team in Kuwait providing logistical support to 50K overseas members.
- Advised senior leadership during a President-directed drawdown of 2,500 troops—coordinated delivery of food, water, and supplies to 123K displaced Afghan families.

### **Senior Analytics Instructor | *Army Logistics University, VA***

**Jun 2017 – Sep 2020**

Instructed military, civilian, and international students in Operations Research, covering topics such as Calculus, Probability, Statistics, Data Analysis, Decision Analysis, Simulation, Linear Regression, and Study Methodology.

- Taught eight core Operations Research subjects—prepared 314 next-generation analysts in foundational and advanced analytical methods.
- Developed and taught a Data Analytics course to over 200 military and civilian personnel at nine locations nationwide—focused on descriptive, predictive, and prescriptive analytics.
- Recognized as Distinguished Instructor (2019), ranked in the top 5% of faculty for teaching excellence.

### **Strategic Assessments Officer | *Strategic Assessments, Pentagon***

**May 2016 – Jun 2017**

Led a 12-member strategic assessments team supporting Air Force long-range planning and delivering data-driven recommendations to senior leaders.

- Visualized Air Force strategy as a network of 252 objectives—identified key dependencies and risks, improving executive insight and guiding strategic revisions.
- Applied text analytics to senior leader speeches and strategy documents—extracted themes and priorities that shaped Air Force strategic direction.

### **Senior Decision Analyst | *Analyses, Assessments & Development, Pentagon***

**Jan 2013 – May 2016**

Led enterprise-level studies and analyses supporting senior Air Force and Department of Defense leadership. Advanced professional development efforts for a 1,100-member analytic community.

- Directed a 35-member policy team; authored enterprise-wide study management policy—providing oversight for a \$140M/year portfolio.
- Automated Air Force sexual assault reporting to the White House—reduced production time by 80% and improved reporting accuracy.
- Developed a forecasting methodology to predict retention of 64K officers by career field—briefed executives, presented at a national conference, and informed the enterprise manpower model.

### **Air Mobility Analyst | *Analyses, Assessments & Lessons Learned, IL***

**Jan 2010 – Jan 2013**

Conducted studies and analyses supporting senior Air Force and Department of Defense decisions across the Air Mobility enterprise.

- Developed a logistics simulation model to assess pallet flow into an overseas base during a wartime scenario—applied risk analysis to right-size the \$32M pallet storage system.
- Led an airlift study for a 123-aircraft executive fleet, including the Presidential aircraft—simulation modeling and statistical analysis informed a 20-year strategic roadmap for the \$6B fleet.
- Deployed as Chief of Strategy—provided analytic support to 100 air mobility planners executing airlift, aeromedical evacuation, and airdrop missions in Iraq and Afghanistan.