BRIAN A. WILKEN, CAP

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SENIOR OPERATIONS RESEARCH ANALYST
Analytics Instructor | Data Analyst | Problem Solver

Analytics professional with 20 years' experience in strategic positions leading cross-functional teams and applying advanced analytical methods enhancing executive-level decision making. Passionate learner, educator, and mentor with strong written and oral communication skills. Master's degree in Operations Research with an emphasis in Applied Statistics and Decision Analysis. Security Clearance: TS/SCI Eligible.

- Proven Leadership
- Strong Communicator
- Strategic/Critical Thinker

- Probability & Statistics
- Predictive Analytics
- Machine Learning

- Excel & SQL
- Power BI & Tableau
- Python

EDUCATION & CERTIFICATIONS

Certified Analytics Professional (2022), 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! **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).

- **Developed Data Analytics course**, and traveled to nine locations around the country; taught **200** military and civilian personnel on **descriptive, predictive, and prescriptive analytics**.

- Created **decision analysis methodology,** and **scored 270 programs** for strategic alignment preparing senior leaders to make **strategic trade-offs** for a **$105B resource allocation plan**.

- **Led cross-functional team** of 35 members on **decision-analysis framework** leading to **first-ever optimization** of Air Force **$14B sustainment budget**.

PROFESSIONAL EXPERIENCE

Study Lead | *LinQuest, OH (Remote)* **Jul 2022 - Present**
Study Lead assigned to Air Force Research Lab's (AFRL) Transformational Capabilities Office (TCO) applying Operations Research principles to study complex problems.

- Lead 14-member team studying Next Generation Aerial Refueling System; used decision analysis and modeling & simulation to explore refueling concepts to inform critical R&D to support system development.
- Lead 5-member team studying High-Speed Vertical Takeoff and Landing concepts; evaluated 16 platforms using decision analysis and modeling & simulation to quantify military utility and operational effectiveness.

United States Air Force – Various Global Locations

Senior Operations Research Analyst | *Analytics Center of Excellence, VA*   **Sep 2020 – Jun 2022**
Empowered Defense Logistics Agency and Department of Defense senior leader in decision-making through data mining, machine learning, and advanced analytical modeling in solving logistical problems.

- Leadership! Supervised 16-member team in Kuwait providing logistical support to 50K overseas members.
- Key advisor for logistical support during President-directed drawdown of 2,500 troops; provided food, water, and supplies for 123K Afghan families.

Senior Analytics Instructor | *Army Logistics University, VA*   **Jun 2017 – Sep 2020**
Instructed military, civilian, and international students in Operations Research. Taught Calculus, Probability, Statistics, Data Analysis, Decision Analysis, Simulation, Linear Regression, and Study Methodology.

- Taught eight subjects, 537 contact hours, to 314 next-generation Operations Research analysts.
- Developed Data Analytics course, and traveled to nine locations around the country; taught 200 military and civilian personnel on descriptive, predictive, and prescriptive analytics.
- 2019 Army Logistics University Distinguished Instructor (top 5% of instructors).

Strategic Assessments Officer | *Strategic Assessments, Pentagon*   **May 2016 – Jun 2017**
Led diverse 12-member strategic-assessments team informing Air Force long-range planning activities and developing recommendations to inform senior leader decisions.

- Produced creative network visualization of Air Force strategy; revealed dependencies/risks across 252 strategic objectives improving senior leader understanding and leading to improved strategy updates.
- Applied text analytics to senior leader speeches and strategies revealing key themes and priorities informing Air Force strategy update.

Senior Decision Analyst | *Analyses, Assessments & Development, Pentagon*   **Jan 2013 – May 2016**
Led studies, analyses, and assessments that supported top Air Force and Department of Defense leadership. Led professional development efforts for a 1,100-member analytic community.

- Led 35-member policy team, authored policy for studies management across Air Force providing vital oversight of $140M/year enterprise.
- Automated Air Force sexual-assault reporting to White House by slashing production time by 80%.
- Developed forecasting methodology to predict number of 64K Officers, by career field, that remain in the Air Force for another year; briefed executives; presented at conference; informed enterprise manpower model.

Air Mobility Analyst | *Analyses, Assessments & Lessons Learned, IL*   **Jan 2010 – Jan 2013**
Conducted studies, analyses, and assessments that supported top Air Force and Department of Defense leadership decisions affecting the Air Mobility enterprise.

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