Curriculum Vitae

Jonathan D. Stallings, PhD, MS

Chief Data Scientist, Joint Trauma System
Applied Statistics Consultant

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SUMMARY: Career military officer and senior data science leader with deep expertise in trauma systems, applied statistics, and real-world evidence. Integrates regulatory science, clinical research, and advanced R programming to build enterprise-scale data ecosystems, AI decision-support tools, and analytics for combat casualty care. Experienced in OMOP CDM, CDISC standards, FDA-regulated product development, simple and multivariate regression, mixed models, generalized linear mixed models, logistic regression, survival modeling, cox modeling, ANOVA, ANCOVA, prediction modeling, missing data, meta-analysis and evidence synthesis. Proven track record leading large multidisciplinary teams, modernizing data infrastructure, and advancing data-driven innovation across DoD trauma missions.

EDUCATION

- University of Oklahoma, Norman, Oklahoma. **M.S. in Applied Statistics**, 12/2025. GPA: 3.9
- Louisville University. Louisville, Kentucky. **Graduate Certificate in Biostatistics**, 5/2023. GPA: 3.49
- Food Drug Administration, Center for Drug Evaluation and Research (CDER), Long Term Health and Education Training Fellowship, 9/2016 – 9/2017.
- US Army Command and General Staff College, Fort Leavenworth, KS, Diploma in Common Core (Distance Learning, Intermediate Level Education), 7/2017.
- Postdoctoral Associate at the Jackson Laboratory. Bar Harbor, ME. Advisor Dr. Susan L. Ackerman, Staff Scientist and Howard Hughes Medical Investigator. NEI Training Grant, 10/2005 – 5/2006.
- State University of New York at Stony Brook. Stony Brook, NY. **Ph.D. in Cellular and Molecular Pathology**, Dissertation Advisor Dr. Mario Rebecchi, 6/2000 – 12/2005. GPA: 3.1
- University of Southern Indiana. Evansville, Indiana. **B.S. in Biology**, 7/1997 – 6/2000. GPA: 3.55
- Central High School, Evansville, Indiana, General Diploma, 6/1991.

WORK EXPERIENCE

- **Supervisory Data Scientist (GS15)**, Deputy, Data Enterprise, Joint Trauma System, Joint Base Lewis San Antonio, TX, 01/29/2024 – Current.
  - Serve as senior technical authority and deputy leader for the JTS Data Enterprise, overseeing enterprise-wide data modernization, architecture, analytics, and governance for the Department of Defense's global trauma-care system.

  - Lead a 60+ multidisciplinary team of data scientists, engineers, statisticians, analysts, abstractors, auditors and clinical informaticians responsible for trauma registry operations, advanced analytics, AI/ML development, and decision-support capabilities.
  - Direct the migration of the DoD Trauma Registry (DoDTR) to the OMOP Common Data Model, including schema design, mapping strategy, validation pipelines, QA/QC frameworks, and integration with enterprise DHA systems.
  - Architect and guide development of SIMON (System for Injury Monitoring and Outcomes Nexus), next-generation data pipelines, including automated ingestion, deduplication, validation engines, and cloud-native infrastructure on AWS GovCloud.
  - Oversee design and implementation of advanced analytic products, including survival models, predictive risk tools, quality/CPG metrics, PCA and factor models, ML-based classifiers, trauma simulations, and readiness analytics.
  - Lead the development of Trauma-LLM, FASTR synthetic trauma registry, and AI-enabled knowledge and decision systems supporting clinicians, medics, and commanders across the continuum of care.
  - Provide senior-level briefing support to DHA, OTSG, CENTCOM, SOCOM, and Joint Staff leadership on trauma outcomes, operational readiness, and enterprise data initiatives.
  - Establish enterprise data governance, metadata standards, analytic workflows, and secure data-sharing processes ensuring compliance with DoD, DHA, and federal privacy and cybersecurity requirements.
  - Collaborate with surgeons, medics, registrars, SMEs, and operational partners to ensure trauma analytics reflect clinical realities and directly inform doctrine, training, operational medicine, and battlefield readiness.
  - Guide strategic planning, capability development, staffing, technical roadmaps, business-cost analyses, and long-term modernization initiatives that shape the future state of the Joint Trauma System.

- **Senior Data Scientist**, Joint Trauma System, Joint Base Lewis San Antonio, TX,02/12/2023 – 01/28/2024.
- **CEO, Data InDeed**, LLC, Converse, TX, 03/25/2018 – 01/29/2025.
- **Deputy Director of Research**, US Army Institute of Surgical Research, Joint Base Lewis San Antonio, TX, 07/01/2020 – 06/01/2022.

  - Led 335+ laboratory and scientific personnel and oversaw a $55M S&T portfolio spanning 100+ funded proposals; accountable for all cost, schedule, and performance outcomes.
  - Directed daily operations of the DoD's premier CCC research enterprise; provided strategic planning, senior-leader briefings, staffing oversight, and conflict resolution.
  - Ensured compliance with Army and Command policies (EO/EEO, safety, mentorship, management controls, educational outreach), cultivating a resilient and mission-aligned workforce.
  - Implemented the Director of Research's strategic vision by anticipating organizational needs and successfully managing enterprise-level change initiatives.
  - Served concurrently as Executive Officer & Chief of Research Systems Integration; designed and deployed a SharePoint-based system for project management, budgeting, and communication.
  - Led a major reorganization, consolidating 15 departments and 4 divisions into six physiologically aligned research pillars using data-science–driven analysis to enhance integration and efficiency.
  - Optimized workforce structure to absorb a $7M budget shortfall; consolidated services, established cost-reimbursable support functions, and strengthened program accountability.

- **Director, Office of Regulated Activities**, US Army Medical Research and Development Command, Ft. Detrick, MD, 07/01/2018 – 07/01/2020.

  - Led and professionally developed a team of 68 regulatory and compliance professionals; oversaw a $12M budget and managed cost, schedule, and performance for 22+ regulatory support agreements.
  - Provided oversight for 81 OTSG-sponsored and 25 non-OTSG-sponsored FDA-regulated medical products across drugs, biologics, and medical devices.
  - Served on the Product Lifecycle Review Committee (PLRC), delivering strategic regulatory guidance across the full medical product lifecycle.

  - Sustained innovative, affordable, and reimbursable regulatory services, including regulatory affairs, clinical operations, data management, biostatistics, technical operations, product safety/surveillance, and quality.
  - Ensured all policies, programs, and processes met FDA Sponsor responsibilities and aligned with command-level regulatory expectations.
  - Designed, implemented, and institutionalized SharePoint systems for project management, budget tracking, strategic communication, and administrative operations across the organization.
  - Served as the lead Action Officer for a command-wide regulatory reengineering effort, transitioning the Office from USAMMDA to higher headquarters.
  - Authored the command's first Regulated Activities Handbook, establishing standardized regulatory processes and expectations.

- **Product Manager, Office of Regulated Activities**, US Army Medical Materiel Development Activity, Ft. Detrick, MD, 09/11/2017 – 07/01/2018.
  - Led the Business Support Office for the Office of Regulated Activities (ORA); ensured safety, security, and professional development of 14 staff supporting data systems enabling $13M in product operations.
  - Oversaw cost, schedule, and performance of regulatory support agreements across five Project Management Offices and 18 Product Management Offices, supporting 82 OTSG-sponsored and 25+ non-OTSG-sponsored FDA-regulated medical products.
  - Directed the strategic Regulatory Reengineering initiative that transitioned ORA from USAMMDA to USAMRMC, including development of the strategic plan, new financial model, and organizational restructuring.
  - Collaborated with business office personnel and technical branches to create a comprehensive continuity book containing SOPs for all ORA functions, strengthening organizational consistency and compliance.
  - Completed an internship with Devices & Diagnostics, gaining subject matter expertise in device submissions involving software and digital health technologies.
  - Provided regulatory support to the Advanced Medical Monitoring (AAM) Integrated Product Team and the APPRAISE hemorrhage detection system.
  - Authored an 88-page concept plan establishing the Office of Regulated Activities, including organizational design, contracting mechanisms, and a cost-reimbursable staffing model—one of the first successfully implemented at headquarters.
  - Served as the lead Action Officer for achieving initial operational capability (IOC) for the newly created Office of Regulated Activities.

- **FDA Fellow (LTHET)**, CDER, FDA, Silver Spring, MD, 09/11/2016 – 09/10/2017.
  - Led efforts on two major regulatory science initiatives: (1) identifying regulatory challenges in approving drugs for traumatic brain injury (TBI), and (2) developing knowledge-management tools to improve regulatory decision-making.
  - Conducted an extensive evaluation of TBI clinical trial design elements; synthesized findings and engaged directly with OND's TBI review division to obtain guidance, validate insights, and refine regulatory perspectives.
  - Designed and built a novel web-based knowledge-management application enabling FDA reviewers to search and identify pre- and post-market drugs mapped to standardized disease terminology, addressing major gaps in regulatory science.
  - Delivered frequent briefings and live demonstrations of the tool to leadership across the Agency; contributed presentations to the UCSF–Stanford CERSI NLP Workshop and FDA Scientific Computing Days (2017).
  - Selected to complete the Duke Health Informatics Short Course, gaining advanced training in health informatics and data standards.
  - Developed R Shiny applications leveraging Natural Language Processing to text-mine Investigational

New Drug submissions and reported key findings directly to the Director of CDER.
  - Served on CDER's R Working Group and Data Governance Committees, supporting cross-center analytics, reproducible workflows, and informatics modernization.

- **Theater Biochemist**, 227th Medical Detachment, (Preventive Medicine) Forward, Camp Arifjan, Kuwait, 04/01/2016 – 09/10/2016.
  - Deployed as the Theater Biochemist supporting Operation Inherent Resolve and Operation Spartan Shield; provided chemical warfare agent, toxic industrial chemical, and biohazard surveillance and consultation across 19 sites, protecting 15,000+ Service Members and civilians.
  - Delivered presumptive identification and threat assessments for chemical and biological hazards, enhancing force health protection across the CENTCOM area of responsibility.
  - Collaborated with CBRN units, the Forensic Exploitation Laboratory, and Air Force Medical Expeditionary Teams to characterize emerging health threats and support operational decision-making.
  - Executed surveillance capabilities for the 227th, conducting presumptive analyses across diverse environmental matrices.
  - First to deploy and evaluate the Environmental Sentinel Biomonitor (ESB) in a forward combat zone (Tikrit, Iraq); conducted operational user assessments and reported findings to headquarters.
  - Developed SOPs and technical procedures for ESB employment during deployment, enabling repeatable and defensible field operations.
  - Conducted over 100 CENTCOM site assessments, including a country-wide Force Health Protection mission in Afghanistan.
  - Awarded First Place at the in-theater scientific symposium; briefed CENTCOM General Officers on ESB findings and operational implications.

- **Deputy Commander**, US Army Center for Environmental, Health Research (USACEHR), Ft. Detrick, MD, 04/01/2015 – 04/01/2016.
  - Served as second-in-command for the Army's premier systems biology and systems toxicology research center; led 47+ scientific and support personnel and oversaw an $18M research portfolio.
  - Provided senior administration for medical research and product development in systems biology, environmental and occupational health surveillance, and environmental health technologies supporting Force Health Protection.
  - Implemented and enforced Army and Command programs in EO/EEO, safety, mentorship, management controls, and educational outreach; achieved the installation's first Safety Star for excellence in safety performance.
  - Responsible for cost, schedule, and performance management for two major service contracts, ensuring compliance and mission alignment.
  - Developed new strategic communication materials—including brochures, pamphlets, and SMS (Strategic Management System) strategic plans—to enhance external engagement and organizational alignment.
  - Led modernization of the USACEHR website, updating publications, leadership biographies, and program pages; transitioned site ownership to internal staff for sustained maintenance.
  - Completely updated the SMS, including all data fields, metadata, formulas, and tracking tools; authored the FY16 Strategy Plan and guided the system from Training to Live operational status.
  - Authored new SOPs for energy and water conservation, developed energy usage logs, and strengthened environmental compliance.
  - Conducted staffing and mission analyses to optimize workforce alignment; revamped safety policies to improve organizational readiness and operational performance.

- **Director, Environmental Health Program**, US Army Center for Environmental Health Research (USACEHR), Ft. Detrick, MD 21702, 04/01/2013 – 09/01/2014.
  - Provided strategic leadership and scientific oversight for an $8.9M/year Environmental Health Program,

including $2.5M in equipment and a team of 14 research scientists.
  - Directed research to identify and develop biomarkers of adverse health effects from occupational and environmental hazards impacting Soldier readiness and long-term health.
  - Advanced program maturity by increasing technology readiness levels, establishing technology-transfer agreements for advanced development, and supporting Small Business Innovation Research (SBIR) collaborations.
  - Formed integrated research teams and launched Joint research initiatives to expand funding, partnerships, and program reach.
  - Co-Chaired the Environmental Health & Protection Program Area Steering Committee for the Military Operational Medicine Research Program.
  - Served as Vice-Chair of the Institutional Animal Care and Use Committee (IACUC); implemented programmatic changes to maintain national laboratory accreditation.
  - Developed USACEHR's first State of the Science meeting and agenda, partnering with JHU-APL and senior DoD scientific leaders to execute the event.
  - Submitted a USAID D3 Innovation Proposal selected as one of only two DoD-funded awards, resulting in a new $5M FY16 Defense Health Program initiative.
  - Supported the Chem-Bio Medical Systems Analysis of Alternatives for the Next Generation Diagnostic System (Increment II) during In-Progress Reviews.
  - Established a new Defense Health Program proposal to expand microbiome research, broadening the program's scientific scope and translational impact.

- **Co-Chair, Environmental Health and Protection Program Area Steering Committee**, Military Operational Medicine Research Program (MOMRP), Ft. Detrick, MD, 01/01/2014 – 09/01/2015.
- **Vice-Chair, Institutional Animal Care and Use Committee (IACUC)**, US Army Center for Environmental Health Research, Ft. Detrick, MD, 01/01/2013 – 01/01/2015.
  - Managed a full animal research program as representative on the IACUC. Ensured high-quality review of research proposal and guided program to achieve its first AAALAC accreditation for rodent and aquatic research.
  - Played key role in the establishment of the institution's first rodent vivarium.
- **Deputy Director, Biomarkers Program**, US Army Center for Environmental Health Research, Ft. Detrick, MD, 07/01/2011 – 03/01/2013.
  - Served as second-in-command for a team of six researchers supporting over $3.5M in funded research projects.
  - Led and coordinated all phases of a multicenter heat-stroke research program, integrating findings into the broader Systems Biology Enterprise.
  - Conducted research, analyzed data, identified therapeutic targets and companion diagnostics, and prepared scientific reports and presentations for internal and external stakeholders.
  - Chaired the Institutional Animal Care and Use Committee (IACUC); provided subject matter expertise in vivarium planning, facility design, and development of animal care policies and procedures.
  - Served as Contracting Officer's Representative (COR), delivering acquisition training and supporting research contract oversight.
  - Provided administrative and scientific support to the Biomarker Program and represented the organization at professional scientific meetings.
- **Chief, Research Operations Service**, Department of Clinical Investigation, Madigan Healthcare System, Tacoma, WA, 10/01/2008 – 03/01/2011.
  - Led research operations and supervised six staff scientists; provided budget oversight for a $162K research portfolio.
  - Developed and executed a medical research curriculum supporting Graduate Medical Education (GME) residents, fellows, and staff.

  - Mentored GME trainees in proposal development, experimental design, data analysis, and scientific writing, strengthening research competency across clinical disciplines.
  - Conducted intramural translational research projects that fostered collaboration and scientific synergy with GME faculty and students.
  - Served as a full voting member of the MAMC Institutional Review Board and Scientific Review Committee, providing subject matter expertise in research ethics and scientific rigor.

- **Chief of Cell Biology, Department of Clinical Investigation**, Madigan Healthcare System, Tacoma, WA, 10/01/2007 – 10/01/2008.
  - Supported Research Operations by procuring laboratory equipment, developing research proposals, and refining medical research protocols for Graduate Medical Education (GME) programs.
  - Promoted research excellence by mentoring GME residents, fellows, and staff in study design, proposal development, data analysis, and scientific writing.
  - Developed and delivered a medical research curriculum that strengthened trainee competence in translational and clinical research methods.
  - Served as a member of the MAMC Institutional Review Board, providing subject matter expertise in research ethics, protocol review, and regulatory compliance.
  - Engaged with local academic institutions and served on the Bates Scientific Advisory Committee to enhance community–military scientific collaboration.
  - Conducted intramural translational research projects that fostered collaboration and scientific synergy with GME faculty and trainees.
- **Lecturer**, Dowling College, Oakdale, NY 1/1/2005 – 6/1/2005.
- **Lecturer**, SUNY at Stony Brook, Stony Brook, NY, 8/1/2001 – 6/1/2007.
- **Small Business Owner**, Evansville, IN, 6/11/1997 – 6/1/2000.
- **Operating Room Technician (91D)**, US Army, 6/11/1991 – 6/10/1997.

CERTIFICATIONS

- Program Manager – Certification Level II, 2019.
- Duke Health Informatics Short Course, 2017.
- Program Manager – Certification Level I, 2016.
- Army Acquisition Corps Membership, 2015.
- SPRDE- Science and Technology Manager – Certification Level III, 2015.
- SPRDE- Science and Technology Manager – Certification Level II, 2015.
- SPRDE- Science and Technology Manager – Certification Level I, 2014.
- Medical Management of Chemical and Biological Causalities Course, 2009.
- Lean Six-Sigma Yellow Belt Team Training, 2009.

TEACHING APPOINTMENTS

- Adjunct Assistant Professor in Preventive Medicine/Biometrics, Uniformed Services University of the Health Sciences (USUHS), F. Edward Herbert School of Medicine, Bethesda, MD. 20814, 12/2013 – 12/2016. Supported Medical Ethics courses.
- Dowling College, Department of Biology, Lecturer, Genetics, 1/2005 – 6/2005.
- SUNY at Stony Brook, Department of Biology, Lecturer, Molecular and Cellular Biology, 7/2001 – 6/2007.

AFFILIATIONS AND PROFESSIONAL SOCIETY MEMBERSHIPS

- Member, AMSUS, The Society of Federal Health Professionals, 4/2025 – Current.

- Member (#216630), American Statistical Association (ASA), 1/2019 – Current.
- Member, Silver Cadeuses Society (SCS), 4/2013 – 12/2015.
- Member, American Association for Laboratory Animal Science (AALAS), 4/2012 – 12/2016.
- Member, American Society for Biochemistry and Molecular Biology (ASBMB), 12/2007– 12/2016.

DECORATIONS AND AWARDS (MILITARY AND/OR PROFESSIONAL)

- Award for Excellence (2025), Military Health System Research Symposium, Outstanding Research Accomplishment Team Military (The APPRAISE Team).
- Legion of Merit (2023), for exceptionally meritorious achievements over a 21-year career, while serving in positions of increased responsibility, culminating into the Deputy Director of Research.
- 9A Professional Designation (2021), The "9A" Proficiency Designator is the highest recognition for professional excellence in the Army Medical Department. Candidates nominated for the honor must be eminently qualified to Chair a department, division or service, or have attained full professional status and national prominence in their field.
- Meritorious Service Medal (2020), 2nd Oak Leaf Cluster for accomplishments while Director, Office of Regulated Activities, US Army Medical Research and Development Command.
- U.S. Food and Drug Agency, Team Excellence Award, CDER Regulatory Science Informatics Team (RSIT) (2017).
- German Armed Forces Badge for Military Proficiency (GAFB) (2016), The decoration is awarded to and worn by German service members of all ranks. Allied service members may also be awarded the badge, subject to their nations' uniform regulations.
- Army Achievement Medal (2016), 4th Oak Leaf Cluster for winning the First Rotational US Military Hospital-Kuwait (USMH-K) health Care Symposium.
- Certificate of Appreciation (2016) for support of the CENTCOM Joint Security Office (FWD) Afghanistan Mission Assurance Assessment.
- Army Commendation Medal (2016), 1st Oak Leaf Cluster for accomplishments while Theater Biochemistry Officer, Kuwait
- Meritorious Service Medal (2016), first Oak Leaf Cluster for accomplishments while Deputy Commander, US Army Center for Environmental Health Research
- Army Commendation Medal (2015), 2nd Oak Leaf Cluster for accomplishments while Director, Environmental Health Research
- Order of Military Medical Merit (2015) Membership #10709.
- "8Z" Skill Identifier and Certificate of Achievement (2015)
- Meritorious Service Medal (2012) for accomplishments while Chief of Research Operations at Madigan Army Medical Center.
- Awarded BG Michael A. Dunn "Press-On Energy" Award (2010) in recognition of outstanding research efforts at Madigan Healthcare System.
- Army Achievement Medal (2008), 3rd Oak Leaf Cluster for authoring Genetics Research Policy for the IRB, MAMC and Western Region.
- Awarded NIH Ruth L. Kirschstein National Research Service Award Post-Doctoral Fellowship 5 T32 EY10434-04 (2006).
- Golden Key Honor Society, University of Southern Indiana (1999).
- Other Military Awards and Service Ribbons: Global War on Terrorism (Service) Ribbon (2007), Army Commendation Medal (1996), Armed Forces Service Medal (1994), Joint Meritorious Unit Award (1994), Good Conduct Medal (1994, 1997), Army Achievement Medal (1994, 1992), Overseas Service Ribbon (1994), NCO Professional Development Ribbon (1993), United Nations Medal (1993), National Defense Service Medal (1991, 2007).
- Co-author on eight abstracts and presentations selected for awards: Resident First Place x3 (2010, 2011, 2011), Founder's Award x2 (2009, 2010), Norm Rich Award (2011), Annual Therapeutics Specialty Award (2014), Best Invited Paper (2015), Podium Presentations x3 (2023, 2024, 2025).

AREAS OF RESEARCH INTEREST AND EXPERIENCE

Applied Statistics, Biostatistics, Data Science, Trauma, Clinical Trials, FDA Regulatory Biostatistics, R/ R Shiny Software Applications, Machine Learning, Artificial Intelligence, Physiological Monitoring, Systems Biology, Systems Toxicology, Molecular and Cellular Biology.

PUBLICATIONS

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1. Sara E Bibbens, Jonathan D Stallings, Monica L Casmaer, Margaret M Shields, Michael J Clarion, Patrick W Hickey, Jennifer M Gurney (2026). Pediatric Mortality in Deployed United States Military Treatment Facilities: 2001-2022. *Pediatrics*, e2025071434. https://doi.org/10.1542/peds.2025-071434
2. Allan E Stolarski, Kevin J Brady, Jonathan D Stallings, Dane Scantling, Crisanto Torres, Ava Mokhtari, Charlie Nederpelt, Ryan McKindles, Brian A Telfer, Noelle Saillant (2026). Field Foresight-Predicting the Need for Massive Transfusion, ICU Utilization, and Mechanical Ventilation for Traumatically Injured Patients. *Mil Med*, usag089. https://doi.org/10.1093/milmed/usag089
3. Michael D Cobler-Lichter, Jessica M Delamater, Talia R Arcieri, Ana M Reyes, Jonathan D Stallings, Vincente S Nelson, Nicholas Namias, Kirby R Gross, Shawn E Boomsma, Mark D Buzzelli, Jennifer Gurney, Kenneth G Proctor, Paul J Wetstein (2026). Echelon of Care at Time of External Fixation and Infection Risk in Military Combat Casualties. *Mil Med*, 191(1-2), e176-e183. https://doi.org/10.1093/milmed/usaf367
4. Andrew D Fisher, Jonathan D Stallings, Ryan Keffer, Erin C Howell, Jasmeet Paul, Sonlee West, Richard Miskimins (2026). Outcomes in austere trauma care: An analysis of patients transferred from scene compared to inter-hospital transfers. *Transfusion*. https://doi.org/10.1111/trf.70046
5. Andrew Frock, Jeffrey T Robbins, Francisco G Vital-Lopez, Valmik Desai, Gheorghe Doros, Barry E Sands, Arunkumar Prabhakaran, Christopher Nemeth, Gregory T Rule, Jason L Sperry, Francis X Guyette, Stephen R Wisniewski, Ernest E Moore, Martin Schreiber, Bellal Joseph, Chad T Wilson, Bryan Cotton, Daniel Ostermayer, Brian G Harbrecht, Mayur B Patel, Suzanne Tamang, Sanjay Malunjkar, David A Spain, Andrew T Reisner, Jonathan D Stallings, Jaques Reifman (2025). A Case Study of AI-Enabled Software as a Medical Device Cleared by the FDA for Assessing Hemorrhage Risk Index (APPRAISE-HRI) after Trauma. *NEJM AI*, 2(11). https://doi.org/10.1056/aics2401170
6. Michael D Cobler-Lichter, Talia R Arcieri, Jessica M Delamater, Ana M Reyes, Jonathan D Stallings, Vincente S Nelson, Nicholas Namias, Kirby R Gross, Shawn E Boomsma, Mark D Buzzelli, Jennifer Gurney, Kenneth G Proctor, Paul J Wetstein (2025). Surgical Stabilization of Fractures in Combat Trauma: External Fixation During the Global War on Terror. *Mil Med*, usaf523. https://doi.org/10.1093/milmed/usaf523
7. Zachary Booms, Jesse Q Nguyen, Brian Smith, Simon Milne, Irasema Terrazas, David Barraza, Tiffany Geisen, Colin Perry, Luciana Torres, Thomas Edwards, Stephanie M Lipiec, Andrew Cap, Kathy L Ryan, Jonathan D Stallings (2025). Assessment of Hemostatic Dressings for Compressible Wounds in a Swine Model Simulating Prolonged Field Care. *Mil Med*, usaf490. https://doi.org/10.1093/milmed/usaf490
8. Jennifer M Gurney, Jonathan D Stallings (2025). Saving Lives on the Battlefield with Data Requires Good Data: Introducing A Combat Casualty Care Data Lexicon Aligning with Levels of Warfare. *Mil Med*, usaf507. https://doi.org/10.1093/milmed/usaf507
9. Mason H Remondelli, Jay B Baker, Jonathan D Stallings, Jennifer M Gurney, Jeremy C Pamplin (2025). Data Saves Lives-The U.S. Military Must Build a Real-Time Combat Casualty Care Data Ecosystem for the Future Battlefield. *Mil Med*, usaf392. https://doi.org/10.1093/milmed/usaf392
10. Jerome M Benavides, Linda C Benavides, Luke Pumiglia, Caryn A Stern, Jonathan D Stallings, Jennifer Gurney (2025). Breaking point: Musculoskeletal combat injuries in Iraq, Afghanistan, and Syria-Epidemiology and future directions of care on the battlefield after over two decades of war. *J Trauma Acute Care Surg*, 99(3S Suppl 1), S27-S31. https://doi.org/10.1097/TA.0000000000004705

11. Jaques Reifman, Andrew Frock, Jeffrey T Robbins, Francisco G Vital-Lopez, Valmik Desai, Gheorghe Doros, Barry E Sands, Arunkumar Prabhakaran, Christopher Nemeth, Gregory T Rule, others (2025). A10 An AI-enabled software as a medical device cleared by the FDA for assessing hemorrhage risk in trauma casualties.
12. Andrew D Fisher, Jonathan D Stallings, Steven G Schauer, Brock A Graham, Caryn A Stern, Andrew P Cap, Jennifer M Gurney, Stacy A Shackelford (2024). A safety and feasibility analysis on the use of cold-stored platelets in combat trauma. *J Trauma Acute Care Surg*, 97(2S Suppl 1), S91-S97. https://doi.org/10.1097/TA.0000000000004334
13. Jennifer M Gurney, Andrew P Cap, John B Holcomb, Amanda M Staudt, Matthew D Tadlock, Travis M Polk, Crystal Davis, Jason B Corley, Martin A Schreiber, Andrew Beckett, Mary Ann Spott, Stacy A Shackelford, Jan-Michael Van Gent, Jonathan D Stallings, Matthew J Martin, Leslie E Riggs (2024). The thin red line: Blood planning factors and the enduring need for a robust military blood system to support combat operations. *J Trauma Acute Care Surg*, 97(2S Suppl 1), S31-S36. https://doi.org/10.1097/TA.0000000000004413
14. Michael D Cobler-Lichter, Brianna L Collie, Jessica M Delamater, Larisa Shagabayeva, Nicole B Lyons, Luciana Tito Bustillos, Nicholas Namias, Jonathan D Stallings, Kirby R Gross, Mark D Buzzelli, Jennifer Gurney, Kenneth G Proctor, Paul J Wetstein (2024). A 20-year retrospective analysis of deep venous thrombosis and pulmonary embolism among combat casualties requiring damage-control laparotomy at US military Role 2 surgical units. *J Trauma Acute Care Surg*, 97(2S Suppl 1), S55-S59. https://doi.org/10.1097/TA.0000000000004405
15. Julie A Rizzo, Elsa C Coates, Maria L Serio-Melvin, James K Aden, Jonathan D Stallings, Kevin N Foster, Kareem R Abdel Fattah, Tam N Pham, Jose Salinas (2023). Higher Initial Formula for Resuscitation After Severe Burn Injury Means Higher 24-Hour Volumes. *J Burn Care Res*, 44(5), 1017-1022. https://doi.org/10.1093/jbcr/irad065
16. Jonathan D Stallings, Srinivas Laxminarayan, Chenggang Yu, Adam Kapela, Andrew Frock, Andrew P Cap, Andrew T Reisner, Jaques Reifman (2023). APPRAISE-HRI: AN ARTIFICIAL INTELLIGENCE ALGORITHM FOR TRIAGE OF HEMORRHAGE CASUALTIES. *Shock*, 60(2), 199-205. https://doi.org/10.1097/SHK.0000000000002166
17. Julie A Rizzo, Nehemiah T Liu, Elsa C Coates, Maria L Serio-Melvin, James K Aden, Jonathan D Stallings, Kevin N Foster, Kareem R AbdelFattah, Tam N Pham, Jose Salinas (2023). The Battle of the Titans-Comparing Resuscitation Between Five Major Burn Centers Using the Burn Navigator. *J Burn Care Res*, 44(2), 446-451. https://doi.org/10.1093/jbcr/irac095
18. Steven G Schauer, Alicia T Crowder, Andrew P Cap, J Brian Lanier, Jennifer M Gurney, Joseph K Maddry, Jonathan D Stallings, Michael D April, Ryan M Knight, Andrew D Fisher (2023). Opinion: The risks of prolonged casualty care for conventional forces in large-scale combat operations. *Task & Purpose*.
19. Julie Rizzo, Elsa Coates, Maria Serio-Melvin, James Aden, Jonathan Stallings, Kevin Foster, Kareem AbdelFattah, Tam Pham, Jose Salinas (2023). 90 Higher Initial Formula for Resuscitation After Severe Burn Injury Means Higher 24-Hour Volumes. *Journal of Burn Care & Research: Official Publication of the American Burn Association*, 44(Suppl 2), S50.
20. Thomas R Stark, Nathan L Davidson, Jeremy W Cannon, Travis M Polk, Stacy A Shackelford, Jonathan D Stallings, Andrew P Cap, Battlefield Pain Research Steering Committee, anel Discussion Members⊠ (2022). Battlefield pain summit 2022: Expert consensus statements. *J Trauma Acute Care Surg*, 93(2S Suppl 1), S12-S15. https://doi.org/10.1097/TA.0000000000003711
21. Katelyn Russell, Marilyn Ostendorf, Lois M Stallings Welden, Jonathan D Stallings (2022). Using a Normothermia Bundle With Perioperative Prewarming to Reduce Patient Hypothermia. *J Perianesth Nurs*, 37(1), 114-121. https://doi.org/10.1016/j.jopan.2021.07.008
22. Mohamed Diwan M ABDULHAMEED, Danielle L IPPOLITO, John A Lewis, Sven Anders Wallqvist, Jonathan D STALLINGS, Matthew G PERMENTER, others (2022). Articles for diagnosis of liver fibrosis.
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- COL(Ret.) Thomas C. Timmes, Professor, Virginia Military Institute

- COL Jennifer M. Gurney, Chief, Joint Trauma System
- Dr. Jaques Reifman (Senior Scientist, ST), Director, Biotechnology HPC Software Applications Institute

RELEVANT STATISTICS AND MATHEMATICS COURSES

Undergraduate (16 Credits):

- MATH100 Intermediate Algebra, 3CR
- MATH111 College Algebra, 4CR
- MATH115 Precalculus Mathematics, 3CR
- MATH241 Principles of Statistics, 3CR
- CIS151 Computer Applications in Business, 3CR

Graduate (51 Credits):

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- PHST563 Math Tools III, 1CR (calculus for statistics)
- PHST680 Biostatistical Methods I, 3CR
- PHST681 Biostatistical Methods II, 3CR
- PHST661 Probability, 3CR
- PHST624 Clinical Trials, 2CR
- PHST625 Clinical Trials II, 2CR
- PHST684 Introduction to Statistical Computing, 3CR
- PHST684 Categorical Data Analysis, 3CR
- MATH5743 Introduction to Mathematical Statistics, 3CR
- DSP5673 Introduction to Scientific Computing, 3CR
- MATH4753 Applied Statistical Methods, 3CR
- LIS5683 Database Design for Informational Organization, 3CR
- MATH5773 Applied Regression Analysis, 3CR
- LIS5623 Advanced Data Analytics, 3CR
- MATH5793 Advanced Applied Statistics, 3CR
- DSA5403 Bayesian Statistics, 3CR
- CAS5773 Ethics in Statistical Practice, 3CR
- CAS5873 Statistical Consulting and Communication, 3CR