

Andrew S. Bowne, PhD, JD

EDUCATION

2004 Bachelor of Arts, Political Science, Pepperdine University, Malibu, CA
2009 Juris Doctor, The George Washington University Law School, Washington, DC
2014 Squadron Officer School, Air University, Maxwell Air Force Base, AL
2017 Master of Laws, Military Law, Contract and Fiscal Law Specialty, The Judge Advocate General's School, Charlottesville, VA
2017 Air Command and Staff College, Air University, by correspondence
2023 Doctor of Philosophy, The University of Adelaide, Australia (Dissertation: "Attracting Commercial Artificial Intelligence Firms to Support National Security through Collaborative Contracts")
2026 (expected) Master's in International Public Policy, Johns Hopkins University, School of Advanced International Studies, Washington, DC

EXPERIENCE

THE GEORGE WASHINGTON UNIVERSITY LAW SCHOOL, NATIONAL SECURITY LAW DEPARTMENT **2023-present**

Professorial Lecturer in Law

Washington, DC

May 2023-present

- Created, designed, and teaches "Artificial Intelligence Law and Policy" to JD and LLM students
- Supervises Master of Laws theses and juris doctor candidates' writing requirements, focused on artificial intelligence, privacy, regulation, and law of armed conflict

UNITED STATES AIR FORCE, JUDGE ADVOCATE GENERAL'S CORPS **2010-present**

West Space Scholar

Johns Hopkins University School of Advanced International Studies

Jul 2025-present

- Candidate for Master's in International Public Policy (expected May 2026)
- Joint Professional Military Education, Phase II

Staff Judge Advocate

48th Fighter Wing, RAF Lakenheath, UK

Jul 2023-Jul 2025

- Lead counsel in 33-person agency, providing full-spectrum legal services to 20,000 personnel at largest combat air wing for Europe and Africa
- Provides operational legal support to operations in four combatant commands

- Serves as a member of DAF JAG Corps Innovation Leadership Team, focusing on technology development and integration into legal operations, training and education, and data management

Chief Legal Counsel

Department of the Air Force - Massachusetts Institute of Technology Artificial Intelligence Accelerator (DAF-MIT AIA), Cambridge, MA Jun 2021-Jul 2023

- Handpicked as the lead counsel for the Department of the Air Force on the research, development, and deployment of artificial intelligence capabilities in collaboration with 90 MIT researchers and 60 Lincoln Laboratory researchers
- Provided full-spectrum legal advice to Department of Defense (DoD) leadership on implications and optimal integration/application of artificial intelligence
- Department of the Air Force lead on award-winning 21-person research team developing faster and more efficient algorithms, computing, and datacenters
- Developed machine learning-powered data discovery tool for legal professionals
- Responsible for educating lawyers, contracting/acquisition professionals, and senior leaders in the DoD on artificial intelligence
- Draft policy & strategy documents for the DoD on the ethics of artificial intelligence, acquiring emerging technologies, data frameworks & intellectual property

Deputy Staff Judge Advocate

Space Launch Delta 30, Vandenberg Space Force Base, CA Jul 2019-Jun 2021

- Named top Field Grade Officer in command in 2019 and 2020
- Deputy to the senior legal advisor to the commander at the premier launch site for polar orbit and interplanetary missions, conducting space lift and range operations to support national and combatant commander requirements, and supporting operational and developmental missile system testing for the Department of Defense
- Led contract law team responsible for supporting \$8.4B in national security assets
- Principal legal advisor to command on national security and commercial space launch, environmental law, ethics, and civil rights during initial COVID-19 response
- Advised Secretary of Air Force in first-ever Space Pitch Day, awarding 30 contracts for space-related research and technology in 36 hours without protest

Associate Professor

Contract and Fiscal Law Department, The Judge Advocate General's School
Charlottesville, VA Jun 2017-Jun 2019

- Rated #1/46 professors by Dean of The Judge Advocate General's School

- Taught contract and fiscal law to U.S. and international students from federal agencies, industry, and academia, in courses, seminars, and conferences, including two iterations of a 10-month ABA-accredited LL.M. program
- Created new courses on other transaction authority, contract drafting seminar, and emerging technology acquisition
- Subjects taught include: other transaction authority, commercial contracting, data rights and intellectual property, fiscal law, operational funding and security cooperation, socioeconomic policies, interagency acquisitions, contract formation, bid protests & litigation, contract administration, national security law, intelligence law
- Courses taught include: Contract Law; Fiscal Law; Advanced Acquisitions I and II; Contract Drafting (joint course with University of Virginia Law School); Future of Acquisitions; Operational Funding; National Security Law; Leadership
- LL.M. thesis advisor for 8 students leading to 4 published in peer-reviewed journals
- Briefed HASC/SASC members & professional staff on acquisition reform efforts; wrote the Section 809 Panel's recommendation to expand other transaction authority
- Advisor to U.S. Army & intelligence agencies on AI, intellectual property & other transaction authority; advisor on formation of U.S. Army Futures Command
- Contributing author on the Other Transaction Guide

LL.M. Student

Contract and Fiscal Law Specialty, The Judge Advocate General's School

Charlottesville, VA

Aug 2016-Jun 2017

- Highest overall grade in Civil Law and Advanced Acquisitions II courses
- Thesis and book review competitively selected for peer-reviewed publication

Chief, Military Justice and Operations Law

48th Fighter Wing, RAF Lakenheath, UK

Jun 2013-Aug 2016

- Lead supervisory attorney over 9-person division managing criminal prosecutions at largest combat air wing for Europe and Africa
- Senior trial counsel on numerous General Courts-Martial, including the prosecution of a 35-victim, worldwide sex offense case resulting in largest sentence in wing history
- Hand-selected to represent U.S. interests in *Regina v Sardar (Anis Abid)* [2016] EWCA Crim 1616, and first foreign attorney to be recognized by the Crown Court of England and Wales to provide in-court advice to the Crown; ensured successful prosecution and protection of classified intelligence, leading to conviction of murder charges and sentence to life imprisonment

Team Chief

NATO Rule of Law Field Support Mission, Helmand Province, Afghanistan Aug 2012-Feb 2013

- Led combined, joint, interagency team of legal, political, agricultural, civil affairs experts in most austere and kinetic area of operations in Afghanistan
- Expanded team's operational footprint from three to eleven districts in Helmand, facilitating the formation of governance and justice in remote villages in Taliban strongholds
- Established unprecedented relationship with Afghans in highly contested terrain, leading to greater awareness of local dynamics, assisting counterinsurgency efforts

Chief, Operations and International Law

Grand Forks Air Force Base, ND

Nov 2010-Jun 2013

- Principal legal advisor to commander on new reconnaissance mission
- Recognized by Air Mobility Command and USAF Inspector General as exceptional performer in multiple wing exercises, and real-world disaster response
- One of four Air Force attorneys selected to serve on NORTHCOM's chemical, biological, radiological, nuclear, high-yield explosive response task force

PUBLICATIONS

Articles

"Defending the New Fulda Gap: Deterring Russian Aggression against the Baltic States through Fiscal Legislation," 226 Military Law Review 146 (2018)

"Innovative Acquisition in the Time of Artificial Intelligence," Army Lawyer 74 (January 2019)

"Making the Pentagon an Even More Attractive Customer for AI Upstarts," Contract Management (February 2021)

"Examples are All You Need: Iterative Data Discovery by Example in Data Lakes," Conference on Innovative Data Systems Research (2022) (with Rezig et al.)

"The MIT Supercloud Workload Classification Challenge," IEEE International Parallel and Distributed Processing Symposium (2022) (with Tang et al.)

"Implementing Responsible AI: Proposed Framework for Data Licensing," George Mason University, Center for Government Contracting, White Paper Series No. 10 (2022) (with McMartin)

"Digital Transformation is a Cultural Problem, Not a Technological One," War on the Rocks (2022) (with Leshchinskiy)

"Industry Perspectives on Contracting with the Defense Department," Contract Management (July 2022)

"Developing a Series of AI Challenges for the United States Department of the Air Force," IEEE HPEC (2022) (with Gadepally et al.)

"How to Buy AI," Contract Management (2022) (with Holte)

"Acquiring Machine-Readable Data for an AI-Ready Department of the Air Force," JAG Reporter (2022) (with Holte)

"A Survey of Data Challenges across a Modernizing Bureaucracy: A New Perspective on Examining Old Government Problems," in et al., *Heterogenous Data Management, Polystores, and Analytics for Healthcare*, 10-23 (Springer, 2023) (with Rezig and Gadepally et al.)

"An Evaluation of Low Overhead Time Series Preprocessing Techniques for Downstream Machine Learning," IEEE HPEC (2022) (with Weiss et al.)

"Are ChatGPT and Other Similar Systems the Modern Lernaean Hydras of AI?" 34 Fordham Intell. Prop. Media & Ent. L.J. 78 (2023) (with Ioannidis, Kepner & Bryant)

"100 Years of the JAG Corps," JAG Reporter (2025)

Deskbooks

"Contingency and Deployment Contracting," Operational Law Handbook, The Judge Advocate General's Legal Center and School (2018)

Various Chapters (*Time, Interagency Acquisitions, Reprogramming*), Fiscal Law Deskbook, The Judge Advocate General's Legal Center and School (2017-2019)

Various Chapters (*Authority, Socioeconomic Policies, Commercial Items, Contract Changes, Intellectual Property, NAF Contracting, Other Transaction Authority*), Contract Attorneys Deskbook, The Judge Advocate General's Legal Center and School (2017-2019)

"Artificial Intelligence Acquisition Guidebook," DAF-MIT AIA (2022) (lead author, with Hamilton et al.)

SELECTED RECENT PRESENTATIONS

Panelist, *"Introduction to Other Transaction Authority and Intellectual Property Issues,"* D.C. Bar (2019)

Panelist, *"Barriers to Entry in Defense Acquisition,"* Defense Acquisition University (2020)

Presentation, *"Intellectual Property,"* Joint Acquisition Solutions Summit, Defense Acquisition University (2020)

Presentation, *"Contracting for Emerging Technologies,"* Technology and Law Academy, University of Maryland Applied Research Laboratory for Intelligence and Security (2021)

Panelist, *"Intellectual Property: Striking the Balance Between Data Rights and Value,"* Defense Acquisition University (2021)

Keynote (with Hon. James "Hondo" Geurts), *"Perseverance & Expertise Meet Ingenuity & Creativity,"* National Contract Management Association World Congress (2021)

Invited Speaker, *"Robust Neural Differential Models for Navigation and Beyond,"* IEEE High Performance Extreme Computing Conference (2021)

Panelist, *"Tech Policy in Artificial Intelligence,"* Artificial Intelligence and Intellectual Property, George Mason University (2021)

Presentation (with Michael Kanaan and Vijay Gadepally), *"SBIR and STTR,"* MIT (2021)

Presentation (with Charles Leiserson and Vijay Gadepally), *"Fast and Ethical AI,"* MIT (2021)

Lecture, *"Introduction to Defense Contracts,"* Massachusetts Institute of Technology (2022)

Lecture, *"Artificial Intelligence for Strategic Leaders,"* Naval War College (2022)

Panelist, *"Driving AI and IP to Catapult Innovation to a Whole New Stratosphere,"* Technology Patent Network Conference, World Intelligence Property Review (2022)

Presentation (with Charles Leiserson and Vijay Gadepally), *"Fast AI: Technology Transitions,"* Massachusetts Institute of Technology (2022)

Presentation (with Tim Kraska and Siddharth Samsi) *"Machine Learning Enhanced Data Lakes, Data Discovery & Privacy and Analytics,"* Massachusetts Institute of Technology (2022)

Panelist, *"Buying AI: Current Government Practices,"* Acquisition Next: Artificial Intelligence, George Mason University (2022)

Presentation, *"Artificial Intelligence,"* Air Force Acquisition Leadership Seminar (2022)

Presentation (with Ben McMartin), *"Transformative Contracting to Implement Responsible AI Principles,"* DoD Digital and AI Symposium (2022)

Presentation (with Vijay Gadepally), *"Pathways to Technology Transition,"* Massachusetts Institute of Technology (2022)

Presentation, *"Contracting for Artificial Intelligence–Responsible AI and Intellectual Property Strategies,"* National Contract Management Association World Congress (2022)

Panelist, *"AI and Government Contracting: Lessons Learned from the Commercial Sector,"* American Bar Association Public Contract Law Section (2022)

Presentation, *"Survey of Responsible AI Principles and Policies,"* Department of the Air Force Scientific Advisory Board (2022)

Presentation, *"Legal Perspective of Responsible AI,"* Department of the Air Force Scientific Advisory Board (2022)

Presentation (with Robert Bond and Aleksander Madry) *"AI Ethics,"* Massachusetts Institute of Technology (2022)

Presentation and Workshop, *"Contracting for Artificial Intelligence – Responsible AI and Intellectual Property Strategies,"* National Contract Management Association World Congress (2022)

Presentation, *"Case Study: Data Challenges in Contract Law Practice,"* Very Large Data Base Conference in Sydney, Australia (2022)

Keynote, *"Building Teams from Academia to Industry – Developing AI for National Security,"* Safeguarding Australia Summit (2022)

Panelist, *"AI and Machine Learning Implications in Government Contracting,"* Government Contracting Institute, District of Columbia Bar Association (2022)

Presentation, *"Procurement for Experimental Purposes,"* American Bar Association Committees on Battlespace and Contingency Procurement and Acquisition Reform (2022)

Panelist, *"Department of Defense Missions and Efforts in AI/VR/ML,"* Federal Labs Consortium AI/VR/ML Industry & Tech Event (2023)

Panelist, "AI, Law, and Policy," Military Operations Research Society/Department of the Air Force Data, Analytics & AI Forum (2023)

Presentation, "AI for Datacenter Optimization," IEEE International Parallel and Distributed Processing Symposium (2023)

Presentation, "Proposal for a Green AI Benchmark," IEEE HPEC (2023)

Lecture, "AI Development and Ethics," University of Cambridge (2023)

Presentation, "Large Language Models: Opportunities and Challenges for the Legal Profession," IEEE HPEC (2023)

Presentation, "AI Law," United States Marine Corps, International & Operational Law Branch (2023)

"AI, Machine Learning, and Autonomy: National Security and Acquisition Law Considerations," Army Futures Command AI Seminar (2024)

Presentation, "AI and Acquisition Law," Advanced Acquisition IV, The Judge Advocate General's School (2024 and 2025)

Invited Speaker, *"Environmentally Aware AI for Defence: Balancing Effectiveness, Efficiency and Environmental Awareness in Defence AI,"* The Alan Turing Institute (2025)

AWARDS

Meritorious Service Medal with five oak leaf clusters

Air and Space Force Commendation Medal

Air and Space Force Achievement Medal

Army Achievement Medal with oak leaf cluster

Distinguished Graduate, Commissioned Officer Training

German Armed Forces Badge for Military Proficiency (Gold)

48th Fighter Wing Staff Company Grade Officer of the Year (2015)

National Contract Management Association Advancing Professionals Award (2018)

Air Force General Counsel's Procurement Law Award (Top Contract Lawyer in the Department of the Air Force) (2018)

Keith E. Nelson Distinguished Service Award-Writing (U.S. Army nominee) (2019)

30th Space Wing Staff Field Grade Officer (FGO) of the Year (2019)

30th Space Wing FGO of the Year (2019)

30th Space Wing Staff FGO of the Year (2020)

Vandenberg AFB USAF FGO of the Year (2020)

United States Space Force Albert M. Kuhfeld Award Nominee (Outstanding Young Judge Advocate of the Year) (2020)

Bowne
Current as of June 2025

United States Space Force Legal Office of the Year (2020)

MIT Computer Science and Artificial Intelligence Laboratory Distinguished Contribution Award (2021)

Air Force Civil Law and Litigation Directorate FGO of the Year (2022)

Air Force Civil Law and Litigation Directorate Albert M. Kuhfeld Award Nominee (Outstanding Young Judge Advocate of the Year) (2022)

R&D 100 Finalist (2023)

Thomas P. Keenan, Jr. Award (most notable contribution to the development of international law or military operations law made by an Air Force attorney) (2024)

Team of the Year, 48th Fighter Wing (2025)

MISCELLANEOUS

Member, State Bar of California

Admitted to practice in the United States Supreme Court, the Supreme Court of California, U.S. Court of Appeals for the Armed Forces, the Air Force Court of Criminal Appeals, and the Army Court of Criminal Appeals

Member, American Bar Association, Public Contract Law Section (Vice Chair, Battlespace and Contingency Procurement Committee) and Science & Technology Sector

Member, Institute of Electrical and Electronics Engineers

Member, Australasian Law Academics Association

Member, National Contract Management Association

Coach, University of Virginia Law School Moot Court Team (Best Oralist, 34th Annual Cardozo BMI Moot Court Competition (2018), Champion, Irving R. Kaufman Memorial Securities Law Moot Court Competition (2018))