



Dr. Joshua A. Sipper Biographical Sketch

Dr. Joshua A. Sipper is currently assigned to the Air Force Cyber College as a Professor of Cyberwarfare Studies. He completed his Doctoral work at Trident University in September of 2012, earning a Ph.D. in Educational Leadership (emphasis, E-Learning Leadership). Dr. Sipper's previous degrees were obtained from Troy University (M.Ed. Education) and Faulkner University (B.S. English). Dr. Sipper is a veteran who served honorably in the U.S. Air Force in the intelligence career field and worked for Lockheed Martin in a similar capacity on the U2 program. More recently, Dr. Sipper shifted his focus into the cyber realm for seven years as a Systems Engineer, Chief of Cyber Standardization and Evaluation, and Cyber Exercise Manager for General Dynamics at the Air Force's 26th Network Operations Squadron, followed by a nine-year stint as a civil servant in the Air Force cyber career field at the Curtis E. LeMay Center for Doctrine Development and Education. He has numerous publications including his paper titled "The Cyber Microbiome and the Cyber Meta-reality" published at the IARIA Cyber 2020 conference for which he won a "Best Paper Award" and also has a book titled "The Cyber Meta-reality, Biome, and Microbiome: The Complex New World, set for publication by Rowman and Littlefield in 2022. Dr. Sipper currently serves as a Professor of Cyber Warfare Studies at the Air Force Cyber College, Air University, Maxwell AFB. Dr. Sipper's research interests include cyber operations, ISR, electromagnetic warfare, and cyber warfare.

Publications

Sipper, J. (2021) "[Intelligence, Surveillance, and Reconnaissance and Electromagnetic Warfare Methods for Cyber Signature Production: A Conceptual Model](#)," *Journal of Information Warfare*, 20 (3), 108-126.

Sipper, J. (2021) "[It's Not Just About Cyber Anymore: Multidisciplinary Cyber Education and Training Under the New Information Warfare Paradigm](#)," *Joint Forces Quarterly*, Joint Forces Quarterly 100 (1), 49-56.

Sipper, J. (2021) "[Hypergaming for Cyber: Strategy for Gaming a Wicked Problem](#)," *Cyber Security Information Analysis Center Journal*, 25 (3), 45-57.

Sipper, J. (2021) "[Joint All-Domain Command and Control and Information Warfare: A Conceptual Model of Warfighting](#)," 20th European Conference on Cyber Warfare and Security 22 (5), 392-400.

Sipper, J. (2021) "[Social Media Misinformation: Human-Machine Decision Making Systems and Human Systems Thinking](#)," 8th European Conference on Social Media 21 (4), 233-242.

Sipper, J. (2020) "[The Cyber Microbiome and the Cyber Meta-reality](#)," *ARIA Cyber 2020 Conference*, 37-41.

Sipper, J. (2020) "[Cyber and Emergent Technologies](#)," *ARIA Cyber 2020 Conference*, 30-36.

Sipper, J. (2020) "[Cyber Threat Intelligence and the Cyber Meta-Reality and Cyber Microbiome](#)," *2020 International Conference on Cyber Security and Protection of Digital Services (Cyber Security)*.

Sipper, J. (2020) "[Cyber Underground: Overcoming Obstacles to Cyber in Subterranean Warfare](#)," *Wild Blue Yonder* 2 (4), 38-51.

Sipper, J. (2020) "[Information Warfare and Cyber Education: Issues and Recommendations](#)," *National Cyber Summit* 1271 (1), 235-237.