

JAMES JOHNSON, PhD

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EDUCATION

- PhD Politics & International Relations, University of Leicester (2017)
- MA Asia-Pacific Studies, University of Leeds (2011)
- BA (Hons) History, University of Bristol (1997)

ACADEMIC APPOINTMENTS

Department of Politics & International Relations, University of Aberdeen (2021 to present)

- Lecturer (Assistant Professor), Co-Director of Strategic Studies.

School of Law & Government, Dublin City University (2020 to 2021)

- Assistant Professor

Modern War Institute at the United States Military Academy, West Point (2020 to 2021)

- Non-Resident Fellow

The James Martin Center for Nonproliferation Studies, Middlebury Institute of International Studies, Monterey USA (2019 to 2020)

- Postdoctoral Research Fellow

School of History, Politics & International Relations, University of Leicester (2017 to present)

- Honorary Visiting Fellow (2017 to present)
- Associate Tutor (2018 to 2019)

School of Politics & International Relations, Niccolò Cusano (Italian) University, London (2017 to 2018)

- Lecturer (Adjunct Professor)

School of Government & International Studies, Hong Kong Baptist University (2017)

- Lecturer (Adjunct Professor)

PUBLICATIONS

Books

- *The AI Commander: Centaur Teaming, Command, and Ethical Dilemmas* (Oxford University Press, forthcoming).
- *AI & the Bomb: Nuclear Strategy and Risk in the Digital Age* (Oxford University Press, 2023).
- *Artificial Intelligence & the Future of Warfare: USA, China, and Strategic Stability* (Manchester University Press, 2021).
- *The US-China Military and Defense Relationship during the Obama Presidency* (Palgrave Macmillan, 2018).

Peer-review articles

- “Finding AI faces in the Moon and Armies in the Clouds: Anthropomorphizing AI in military human-machine interactions,” *Global Society* (published online, April 2023).
- “The AI Commander Problem: Ethical, political, and psychological dilemmas of human-machine interactions in AI-enabled warfare,” *Journal of Military Ethics*, Vol. 23, Issue 3-4 (2023): 246-271.
- “Automating the OODA loop in the age of intelligent machines: Reaffirming the role of humans in command-and-control decision-making in the digital age,” *Defence Studies*, Vol. 23, Issue 1 (2023): 43-67.
- “Counterfactual Thinking & Nuclear Risk in the Digital Age: The role of uncertainty, complexity, accidents, and human psychology,” *Journal for Peace & Nuclear Disarmament*, Vol. 5, Issue 2 (2022): 394-421.
- “Inadvertent Escalation in the Age of Intelligence Machines: A new model for nuclear risk in the digital age,” *European Journal of International Security*, Vol. 7 Issue 3 (2022): 337–359.
- “Catalytic Nuclear War in the Age of AI and Autonomy: New military technology and inadvertent escalation risk between nuclear powers,” *The Journal of Strategic Studies* (published online, January 2021).
- “The End of Military-Techno *Pax Americana*? Washington’s Strategic Responses to Chinese AI-enabled military Technology,” *The Pacific Review*, Vol. 34, Issue 3 (2021): 351–378.
- “Deterrence in the Age of Artificial Intelligence and Autonomy: A paradigm shift in nuclear deterrence theory and practice?” *Defense & Security Analysis*, Vol. 36, Issue 4 (2020): 422–448.
- “Artificial Intelligence in Nuclear Warfare: A Perfect Storm of Instability?” *The Washington Quarterly*, Vol. 43, Issue 2 (Summer, 2020): 197–211.
- “Delegating Strategic Decisions to Machines: Dr Strangelove redux?” *The Journal of Strategic Studies*, Vol. 45 Issue 3 (2020): 439–477.
- “AI, Drone Swarming, & Escalation Risks in Future Warfare,” *The RUSI Journal*, Vol. 165, Issue 2 (2020): 26–36.
- “Artificial Intelligence: A Threat to Strategic Stability,” *Strategic Studies Quarterly* (Feature Article), Vol. 14, Issue 1 (2020): 16–39.
- “The AI-Cyber Nexus: Implications for Military Escalation, Deterrence, & Strategic Stability,” *The Journal of Cyber Policy*, Chatham House, Vol. 4, Issue 3 (2019): 442–460.
- “Artificial Intelligence & Future Warfare: Implications for International Security,” *Defense & Security Analysis*, Vol. 35, Issue 2 (2019): 147–169.
- “China’s Vision of the Future Network-Centric Battlefield: Cyber, Space & Electromagnetic Asymmetric Challenges to the US,” *Comparative Strategy*, Vol. 37, Issue 5 (2019): 373–390.
- “Chinese Nuclear ‘War-fighting:’ “An Emerging Intense US-China Security Dilemma and Threats to Crisis Stability in the Asia Pacific,” *Asian Security*, Vol. 15, Issue 3 (2019): 215–232.
- “China’s Guam Express and Carrier Killers: The Anti-Ship Asymmetric Challenge to the US in the West Pacific, and Security Dilemma Explanations,” *Comparative Strategy*, Vol. 36, Issue 5 (2017): 319–322.
- “Washington’s Perceptions and Misperceptions of Beijing’s Anti-access Area-denial ‘Strategy:’ Implications for Military Escalation Control and Strategic Stability,” *The Pacific Review*, Vol. 20, Issue 3 (2017): 271–288.

Book chapters

- “The US, Indo-Pacific, AI, and Emerging Security Technologies,” in Oliver Turner, Nicola Nymalm, and Wali Aslam (ed), *Routledge Handbook of US policy in the Indo-Pacific* (2023).

- “Does the United States Face a Multipolar Future? Washington’s Response Through the Lens of Technology,” in Benjamin Zala (eds), *National Perspectives on a Multipolar Order*, Manchester University Press (2021).
- “Emerging Technologies and Chinese Challenges to US Innovation Leadership,” in Reuben Steff, Simone Soare, and Joe Burton (ed), *Emerging Technologies and International Security: Machines, the State and War*, Routledge (2020).
- “The Impact of Artificial Intelligence on Strategic Stability, Escalation, & Nuclear security,” in Sam Dudin and Chelsey Wiley (ed), *The 2019 UK PONI Papers*, Royal United Services Institute (2019).
- “China’s Nuclear Modernisation: The Evolution of Chinese Nuclear Doctrine, Strategic Ambiguities & Implications for Sino-US Relations,” in M Kouhi-Esfahani (ed), *Nuclear politics in Asia*, Routledge (2017), with Andrew Futter.

Other selected publications

- “The challenges of AI command and control,” *European Leadership Network*, April 2023.
- “AI, Autonomy, and the Risk of Nuclear War,” *War on the Rocks*, July 2022.
- “Automating the OODA Loop in the Age of AI,” *CSIS Policy on Nuclear Issues Network*, July 2022.
- “Escalation to Nuclear War in the Digital Age,” *Modern War Institute at West Point*, October 2021.
- “In the AI age, the world must work together to limit the risk of nuclear war,” *University of Aberdeen, Blog Post*, September 2021.
- “Artificial Intelligence, Autonomy, and the Risk of Catalytic Nuclear War,” *Modern War Institute at West Point*, March 2021.
- “Rethinking Nuclear Deterrence in the Age of Artificial Intelligence,” *Modern War Institute at West Point*, January 2021.
- “Artificial Intelligence in Warfare: A Threat to Strategic Stability?” *Institute for International Conflict Resolution and Reconstruction*, Dublin City University, November 2020.
- “AI and the Bomb: Nuclear Command & Control in the Age of the Algorithm,” *Modern War Institute at West Point*, May 2020.
- “AI, Cyberspace, and Nuclear Weapons,” *War on the Rocks*, January 2020 – with Eleanor Krabill.
- “Is the US losing the artificial intelligence arms race?” *The Conversation*, October 2019.
- “China and the US are Racing to Develop AI Weapons,” *The Conversation*, June 2018.
- “China’s Evolving Approach to Nuclear War-Fighting,” *The Diplomat*, November 2017.
- “If Trump is bluffing on North Korea the results could be catastrophic,” *The Conversation*, August 2017.
- “The Shadow of a US-China Arms Race,” The Institute of Asia & Pacific Studies, *University of Nottingham*, August 2017.
- “The Shadow of an Unrestrainable Military-Technological Security Dilemma: US-China relations at a dangerous crossroads,” *Think Leicester*, July 2017.
- “Is China Moving Towards a Nuclear ‘Warfighting’ Posture?” The Institute of Asia & Pacific Studies, *University of Nottingham*, June 2017.
- “High-tech China-US arms race threatens to destabilize East Asia,” *The Conversation*, May 2017.
- “China’s Vision of the Future Networked Battlefield,” *The Diplomat*, April 2017.
- “China’s Missiles Threaten New Arms Race,” *Newsweek*, March 2017.
- “China’s anti-ship missiles threaten an arms race in Pacific,” *The Conversation*, March 2017.
- “China’s new missile could threaten an arms war in the Pacific,” *The Business Insider*, March 2017.
- “Is China moving towards a nuclear ‘Warfighting’ posture?,” *The Conversation*, February 2017
- “China’s nuclear policy could be about to radically change,” *Hong Kong Free Press*, February 2017.
- “Nuclear No First Use and President Obama’s Legacy,” *Think Leicester*, August 2016 – with Andrew Futter.

TEACHING & ACADEMIC SERVICE

Undergraduate courses:

- Chinese Politics & Foreign Policy, 2020, 2021.
- Independent Study Project, 2020, 2021.
- Government & Politics in China, 2018.
- American Politics, 2018.

Graduate courses:

- Strategic Theory, 2021 to present.
- Chinese Security Issues, 2022 to present.
- Dissertation in Strategic Studies, 2021 to present.
- The Politics and Foreign Policy of China, 2020, 2021.
- International Security & Strategic Studies, 2018.
- Terrorism and Fundamentalism in the 20th & 21st Centuries, 2018.
- International Security, 2017.

Guest lecturer & teaching assistant:

- Emerging Technologies & Nuclear Nonproliferation, 2019.
- Chinese Nuclear Policy, 2019.
- AI-Cyber Security Nexus, 2019.
- Post-Cold War World Order, 2018.
- Intelligence & Security Studies, 2018, 2019.
- International Security, 2018, 2019.
- World Order Issues, 2017.
- International Political Economy, 2017.

CONFERENCES, KEYNOTES & WORKSHOPS

- International Studies Association Annual Convention Annual Convention, 2016, 2018, 2020 (cancelled), 2021, 2022.
- British International Studies Association Annual Conference, 2016, 2018, 2019, 2020, 2022, 2023.
- British International Studies Association US Foreign Policy Group Conference, 2016, 2017.
- British International Studies Association Global Nuclear Order Working Group, 2020, 2021.
- Association for the Advancement of Artificial Intelligence (AAAI) AI and Diplomacy Workshop (Panel speaker), Washington DC 2023.
- Presented Formal Oral Evidence at the UK House of Lords Select Committee on “AI in Weapon Systems,” London 2023.
- “Expert Dialogue on Military Applications of AI and Risk Reduction,” Center for a New American Security (CNAS) (Keynote speaker/Webinar), Washington DC, 2023.
- “Understanding and Mitigating Long-term AI Risk” roundtable, The Alan Turing Institute in partnership with the Foreign, Commonwealth & Development Office and the UK Office for Artificial Intelligence (Panel speaker/Webinar), London 2022.
- International Institute for Strategic Studies (IISS) “China–US Competition in AI: Destabilizing and Intensifying” (Keynote speaker/Webinar), London 2021.

- The Vienna Center for Disarmament and Non-Proliferation (VCDNP) Deterrence and Emerging Technologies Webinar Series, “Situational Awareness, Command & Control: The Impact of AI,” (Keynote speaker/Webinar), Vienna 2021.
- “Deterrence in the age of AI & autonomy: A paradigm shift?” The US Naval War College, “Annual Strategic Deterrence Symposium (Panel speaker), Rhode Island NY 2021.
- “Artificial Intelligence and the Future of Warfare,” Politics & International Relations Dept., University of Aberdeen (Keynote speaker ‘Book Launch’/Webinar), Aberdeen 2021.
- Center for Strategic & International Studies (CSIS), Project on Nuclear Issues, Book Launch Event (Keynote speaker/Webinar), Washington DC 2021.
- “Artificial Intelligence and the Future of Warfare,” School of History, Politics & International Relations, University of Leicester (Keynote speaker/Webinar), Leicester 2021.
- “Disruptive technology and its implication to strategic deterrence,” United States Strategic Command Deterrence (STRATCOM) Symposium, Nebraska, 2021 (Webinar).
- “Artificial Intelligence: Nuclear Strategy & Risk in the Digital Age,” Lawrence Livermore National Laboratory Lecture Series (Keynote speaker/Webinar), Livermore 2021.
- “Deep Dive into Hypersonic Missiles & AI,” Project on Nuclear Issues Capstone Conference Series, US STRATCOM (Panel moderator), Washington DC 2021.
- “Deterrence in the Age of Artificial Intelligence & Autonomy,” UK Deterrence and Assurance Academic Alliance, King’s College, Portsmouth 2020.
- “Artificial Intelligence in Future Hyper-Warfare: A Perfect Storm of Instability?” Politics & International Relations Research Seminars, Dublin City University (Keynote speaker/Webinar), 2020.
- “Artificial Intelligence & Strategic Stability: Implications for Future Warfare,” Project on Nuclear Issues Capstone Conference Series, US STRATCOM, Nebraska 2020 (Webinar).
- “Deep-dive Discussion on Conventional Nuclear Integration,” Project on Nuclear Issues Capstone Conference Series, US STRATCOM, Nebraska 2020 (Webinar).
- US-China “*On the Nuclear Brink*” Wargaming exercise,” Project on Nuclear Issues /Lawrence Livermore National Laboratory Summer Conference, Livermore 2020 (Webinar).
- “Depiction of AI in Dr Strangelove,” Center for Strategic & International Studies (CSIS), Project on Nuclear Issues, Movie Club Event (Keynote speaker), Washington DC 2020 (Webinar).
- The NATO Defense College, “Early-Career Nuclear Strategists Workshop,” Rome 2020 (Webinar).
- Georgetown University & Sandia National Laboratories, “Strategic Force Analysis Boot Camp,” Albuquerque, New Mexico, August 2019.
- “Artificial Intelligence: A Threat to Strategic Stability?” Public Speaker Seminar Series, at The James Martin Center for Nonproliferation Studies (Keynote speaker), Monterey 2019.
- “China’s Nuclear Policy, Posture & Controversies,” Lecture to Visiting Fellows at The James Martin Center for Nonproliferation Studies, Monterey 2019.
- “Artificial Intelligence & Strategic Stability: Implications for Nuclear Security, Deterrence, & Escalation in Future Warfare,” Project on Nuclear Issues Winter Conference, Washington DC 2019.
- “The Impact of Artificial Intelligence on Strategic Stability, Escalation, & Nuclear Security,” UK Project on Nuclear Issues Annual Conference, London 2019.
- “AI & Future Warfare,” UK Deterrence & Assurance Academic Alliance, King’s College London, 2018.

FELLOWSHIPS, GRANTS & AWARDS

- Honorary Visiting Fellow, University of Leicester (2017 to present).
- Non-Resident Associate, The Towards a Third Nuclear Age: Strategic Conventional Weapons and the Next Revolution in the Global Nuclear Order (NUCLEARREV) European Research Council funded project. Principal investigator: Professor Andrew Futter, University of Leicester (2021 to present).

- Non-Resident Fellow, The Modern War Institute at the US Military Academy, West Point (2020 to 2021).
- Mid-Career Cadre, Center for Strategic & International Studies (CSIS), Project on Nuclear Issues (2020 to present).
- School of Social Sciences Internal Research Award, University of Aberdeen, 2023 (£550.00).
- Postdoctoral Research Fellow, The James Martin Center for Nonproliferation Studies (2019 to 2020).
- Carnegie Foundation travel and stipend for “Strategic Force Analysis Boot Camp,” 2019 (\$1000).
- Carnegie Foundation research grant and stipend for Postdoctoral Fellowship, 2019 to 2020 (\$73,000).
- Faculty of Humanities & Social Sciences Book Publication Scheme Award, Dublin City University, 2021, (€500.00).
- British International Studies Association, Member (2016 to present).
- International Studies Association, Member (2016 to present).

OCCASIONAL REVIEWER

The Pacific Review; The Journal of Cyber Policy; Defense & Security Analysis; The Nonproliferation Review; Defence Forces Review; Communist and Post-Communist Studies; Irish Defense Force Review; Strategic Studies Quarterly; International Studies Review; American Political Quarterly; RUSI Journal; Contemporary Security Policy; International Studies; War on the Rocks; Palgrave Macmillan; Georgetown University Press; Manchester University Press; Routledge; Oxford University Press.

NON-ACADEMIC WORK EXPERIENCE

- **HSBC Qianhai Securities**, Shenzhen, PRC (2018 to 2018) Director, Head of China Execution Services.
- **Bank of China International**, Hong-Kong (2010 to 2017) Director, Execution & Research Dept.
- **Credit Suisse**, Taipei, Taiwan (2007 to 2010) Senior Vice President, Sales & Trading Dept.
- **CITIC Securities Ltd**, Beijing, PRC (2005 to 2007) Vice President, Sales & Trading Dept.
- **Langlade Capital Management LLP**, London (2004 to 2005) Head Equity Trader.
- **BNP Paribas**, London (2000 to 2003) European Equity Sales-Trader, Sales & Trading Dept.
- **Goldman Sachs International**, London (1998 to 2000) Financial Analyst, Equity Derivatives Dept.

LANGUAGES

- Mandarin: Fluent

REFERENCES

Available on request.