JAMES JOHNSON, Ph.D.

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EDUCATION

- Ph.D. Politics & International Relations, University of Leicester (2017)
- M.A. Asian Studies, University of Leeds (2011)
- B.A. (Hons) History, University of Bristol (1997)

ACADEMIC APPOINTMENTS

School of Social Science, Department of Politics & International Relations, University of Aberdeen
- Senior Lecturer (Associate Professor) (2023 to present)
- Director of Strategic Studies (2021 to present)
- Director/Founder, The Centre for Strategic Studies (2024 to present)
- Lecturer (Assistant Professor) (2021-2023)

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, 2024).
- *AI and 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

- "Revisiting the "Stability-Instability Paradox" in AI-enabled Warfare: A modern-day Promethean tragedy under the nuclear shadow?" *Review of International Studies* (Published online).
- "Finding AI Faces in the Moon and Armies in the Clouds: Anthropomorphizing artificial intelligence in military human-machine interactions," *Global Society*, Vol. 38, Issue 1 (2024): 67-82.
- "Post 9/11 US Thinking and Approaches to Nuclear Deterrence: The Bush Doctrine and the role of nuclear weapons in US deterrence strategy," *International Politics*, Vol. 61, Issue 3 (2024): 547–566.
- "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.
- "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 (2022): 246-271.
- "Delegating Strategic Decisions to Machines: Dr Strangelove redux?" *The Journal of Strategic Studies*, Vol. 45 Issue 3 (2022): 439–477.
- "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): 1-41.
- "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.
- "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.
- "Chinese Nuclear 'Warfighting:' 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 Vision of the Future Network-Centric Battlefield: Cyber, space & electromagnetic asymmetric challenges to the US," *Comparative Strategy*, Vol. 37, Issue 5 (2018): 373–390.
- "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 & commissioned reports

- "Proceed with Caution: Artificial Intelligence in Weapon Systems," *UK House of Lords, AI in Weapon Systems Committee Report of Session 2023–24*, 1 December, 2023.

- "Artificial Intelligence and Nuclear Risk," in Nick Ritchie and Mikhail Kupriyanov (ed) *Understanding the Humanitarian Consequences and Risks of Nuclear Weapons: New Findings from Recent Scholarship*," Federal Ministry for European and International Affairs Department for Disarmament, Arms Control and Non-Proliferation, Vienna (2023).
- "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*, Routledge (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.

Policy research publications & commentaries
- "Is there a Human in the Machine? AI and Future Warfare," *War on the Rocks*, May 2024.
- "Nuclear Brinkmanship in AI-Enabled Warfare: A Dangerous Algorithmic Game of Chicken," *War on the Rocks*, September 2023.
- "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 radically change," *Hong Kong Free Press*, February 2017.
- "Nuclear No First Use and President Obama's Legacy," *Think Leicester*, August 2016 – with Professor Andrew Futter.

TEACHING & SUPERVISION

Undergraduate courses:
- Introduction to Politics & International Relations, 2021 to present.
- Power & Conflict, 2025.
- Chinese Politics & Foreign Policy, 2020, 2021.
- Independent Study Dissertation Project, 2020, 2021.
- Government & Politics in China, 2018.
- American Politics, 2018.

Postgraduate courses:
- Strategic Theory, 2021 to present.
- Chinese Security Issues, 2021 to present.
- AI, Autonomy, & Future War, 2025.
- Dissertation in Strategic Studies, 2021 to present.
- Global Security Issues, 2021 to 2022.
- The Politics & Foreign Policy of China, 2020, 2021.
- Post-Cold War World Order, 2018.
- Terrorism & Fundamentalism in the 20th & 21st Centuries, 2018.
- International Security, 2017.

Supervision:
- Postgraduate dissertation coordinator & supervision, 2020 to present.
- Undergraduate dissertation supervision, 2020 to present.
- PhD supervision, 2021 to present.

Guest lecturer & graduate teaching assistant:
- Emerging Technologies & Nuclear Nonproliferation, 2019.
- Chinese Nuclear Policy, 2019.
- AI-Cyber Security Nexus, 2019.
- 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, 2016, 2018, 2020 (canceled), 2021, 2022.
- British International Studies Association Annual Conference, 2016, 2018, 2019, 2020, 2022, 2023, 2024.
- British International Studies Association US Foreign Policy Group Conference, 2016, 2017.
- British International Studies Association Global Nuclear Order Working Group, 2020, 2021.
- "Capturing Technology: Rethinking Arms Control" Conference, the German Federal Foreign Office (Keynote speaker), Berlin 2024.
- "Implications of Emerging and Disruptive Technologies for Nuclear Deterrence," Workshop, hosted by NATO's Nuclear Policy Directorate & the Office of Chief Scientist, (Panel speaker), Luxemburg, 2024.
- "Understanding Complex Social Behavior through AI Analytical Wargaming Workshop," hosted by The Alan Turing Institute, the US Department of Defense Department of Research & Engineering, and the University of Maryland, London, 2024.
- Presented Formal Oral Evidence at the UK House of Lords Select Committee on "AI in Weapon Systems," London, 2023.
- "Implications of Emerging and Disruptive Technologies for Nuclear Deterrence," Workshop, hosted by NATO's Nuclear Policy Directorate & the Office of Chief Scientist, (Panel speaker), Luxemburg, 2024.
- "AI and the Bomb: A Conversation," Nuclear Threat Initiative (Keynote speaker/Webinar), Washington DC, 2023.
- "The AI and Nuclear Issues Workshop," Carnegie Corporation of New York (Keynote speaker/Webinar), Washington DC, 2023.
- "AI and the Bomb," US Department of Defense (DoD) Office of the Joint Staff's Strategic Multilayer Assessment (SMA) program (Keynote speaker/Webinar), Washington DC, 2023.
- "Expert Dialogue on Military Applications of AI and Risk Reduction," Center for a New American Security (CNAS) (Keynote speaker/Webinar), Washington DC, 2023.
- Association for the Advancement of Artificial Intelligence (AAAI) AI and Diplomacy Workshop (Panel speaker), 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, New York, 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, 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 & PROFESSIONAL AFFILIATIONS

- Honorary Visiting Fellow, University of Leicester (2017 to present).
- Non-Resident Scholar, Mid-Career Cadre Member, Center for Strategic & International Studies (CSIS), Project on Nuclear Issues (2020 to present).
- Non-Resident Research 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 Expert, US Department of Defense (DoD) Office of the Joint Staff's Strategic Multilayer Assessment (SMA) program (2023 to present).
- Expert Advisory Group Member, the Global Commission on Responsible AI in the Military Domain (REAIM), The Dutch Ministry of Foreign Affairs, Security Policy Department (2024 to present).
- Senior Mentor, Center for Strategic & International Studies (CSIS), Project on Nuclear Issues (2022).
- Non-Resident Fellow, The Modern War Institute at the US Military Academy, West Point (2020 to 2021).
- UK Deterrence & Assurance Academic Alliance, Member (2018).
- British International Studies Association, Chair/Discussant/Member (2016 to present).
- International Studies Association, Chair/Discussant/Member (2016 to present).

GRANTS & AWARDS

- The University of Aberdeen, interdisciplinary Leverhulme Research Centre on Trust in the Digital Age, Co-Investigator (under review) (circa £10m).
- The University of Aberdeen, interdisciplinary Leverhulme Doctoral Scholarship funding scheme, "AI & the Evolution of Human Culture," Co-Investigator (under review) (circa £2.15m).
- School of Social Sciences Internal REF2029 Impact-Engagement Award, University of Aberdeen, 2024 (£1200).
- Carnegie Corporation of New York, "Strategic Force Analysis Boot Camp," Keynote Speaker, Sandia National Laboratories & Georgetown University, New Mexico 2023 ($2500).
- Carnegie Corporation of New York, International Peace & Security Workshop, Guest Speaker, 2023 ($500.00).
- Austrian Foreign Ministry sponsored project with the University of York: Principal investigator: Dr Nick Richie, "AI and Nuclear Risk" discussion paper, 2023 (€1000.00).
- "Expert Dialogue on Military Applications of AI and Risk Reduction," Center for a New American Security (CNAS), Keynote speaker and discussion paper, 2023 ($2000.00).
- School of Social Sciences Internal Research Award, University of Aberdeen, 2023 (£550.00).
- Faculty of Humanities & Social Sciences Book Publication Scheme Award, Dublin City University, 2021 (€500.00).
- Postdoctoral Research Fellow, The James Martin Center for Nonproliferation Studies, funded by the Carnegie Corporation of New York, 2019 to 2020 ($100,000).
- Carnegie Corporation of New York, "Strategic Force Analysis Boot Camp," travel and stipend, Sandia National Laboratories & Georgetown University, New Mexico 2019 ($1000.00).

PROFESSIONAL SERVICE

- Director of Strategic Studies, University of Aberdeen (2021 to present).
- Director & Founder of The Centre for Strategic Studies (CSS), University of Aberdeen (2024 to present).
- Director & Founder of the Strategic Studies Wargaming Society, University of Aberdeen (2022 to present).
- School of Social Sciences, University of Aberdeen, Postgraduate Committee, Chair/Member (2022 to present).
- School of Social Sciences, University of Aberdeen, Postgraduate Research Committee, Chair/Member (2022 to present).
- Department of Politics & International Relations, University of Aberdeen, Postgraduate Staff Student Liaison Committee, Chair/Member (2022 to present).
- Department of Politics & International Relations, University of Aberdeen, Student Recruitment Committee, Postgraduate Conversion Officer (2024 to present).
- Department of Politics & International Relations, University of Aberdeen, Exam Board Committee, Chair/Member (2022 to present).
- School of Social Sciences, University of Aberdeen, Personal Tutor (2022 to present).
- Erasmus Exchange Programme Selection Committee Member, Dublin City University (2021).
- Reviewer (selective): *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; Texas National Security Review*; *Security Studies*; Palgrave Macmillan; Georgetown University Press; Manchester University Press; Routledge; Oxford University Press.

NON-ACADEMIC PROFESSIONAL APPOINTMENTS

- 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.