JAMES JOHNSON, Ph.D.

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EDUCATION

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

ACADEMIC APPOINTMENTS

School of Law & Government, Dublin City University (DCU) (Sep 2020)
- Assistant Professor

The James Martin Center for Nonproliferation Studies (CNS), Middlebury Institute of International Studies, Monterey USA (Jul 2019 to Jun 2020)
- Postdoctoral Research Fellow

School of History, Politics & International Relations, University of Leicester (Jul 2017 to present)
- Honorary Visiting Fellow/ Associate Tutor (Adjunct Professor)

School of Politics & International Relations, Niccolo Cusano (Italian) University, London (Oct 2017 to Sep 2018)
- Lecturer (Adjunct Professor)

School of Government & International Studies, Hong Kong Baptist University (Apr 2017 to Sep 2017)
- Lecturer (Adjunct Professor)

PUBLICATIONS

Books:
- *The U.S.-China Military and Defense Relationship during the Obama Presidency* - 'New Security Challenges Series,' Palgrave Macmillan (2018).
- *Artificial Intelligence & the Future of Warfare: USA, China, & Strategic Stability* - Manchester University Press (under advanced contract).

Peer-review articles:
- "Artificial Intelligence in Future Hyper-Warfare: A Perfect Storm of Instability?" *The Washington Quarterly*, Vol. 43, Issue 2 (Summer, 2020).
- "Delegating Strategic Decisions to Machines: Dr Strangelove redux?" *The Journal of Strategic Studies* (published online, April 2020).
- "AI, Drone Swarming, & Escalation Risks in Future Warfare," *The RUSI Journal* (published online, April 2020).
- "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.
- "The End of Military-Techno *Pax Americana*? Washington's Strategic Responses to Chinese AI-enabled military Technology," *The Pacific Review* (published online, October 2019).
- "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 U.S.," *Comparative Strategy*, Vol. 37, Issue 5 (2019): 373-390.
- "Chinese Nuclear 'War-fighting:' "An Emerging Intense U.S.-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 U.S. 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 Incumbent Unipole and its Allies: Multipolar Challenges to U.S. Dominance in Artificial Intelligence," in Benjamin Zala (ed), *Interrogating a Multipolar Order: The Use of Multipolar Narratives in National Contexts*, Manchester University Press (forthcoming).
- "Emerging Technologies and Chinese Challenges to U.S. Innovation Leadership," in Reuben Steff, Simone Soare, and Joe Bortun (ed), *Emerging Technologies and International Security: Machines, the State and War*, Routledge (forthcoming).
- "U.S. Artificial Intelligence & Emerging Security Technologies Policy in the Indo-Pacific," in Oliver Turner, Nicola Nymalm, and Wali Aslam (ed), Routledge Handbook of US policy in the Indo-Pacific (forthcoming).
- "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 (December, 2019).
- "China's Nuclear Modernisation: The Evolution of Chinese Nuclear Doctrine, Strategic Ambiguities & Implications for Sino-U.S. Relations," *in M Kouhi-Esfahani (ed), Nuclear politics in Asia,* Routledge (2017), with Andrew Futter.

Professional publications & occasional reports:
- "AI and the Bomb: Nuclear Command & Control in the Age of the Algorithm," *Modern War Institute*, 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 U.S.-China Arms Race," The Institute of Asia & Pacific Studies (IAPS), *University of Nottingham*, August 2017.
- "The Shadow of an Un-restrainable Military-Technological Security Dilemma: U.S.-China relations at a dangerous crossroads," *Think Leicester*, July 2017.
- "Is China Moving Towards a Nuclear 'Warfighting' Posture?" The Institute of Asia & Pacific Studies (IAPS), *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 the Western 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 weapons 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 Dr. Andrew Futter.

Working papers:
- U.S.-China Crisis Stability in an Era of Artificial Intelligence and Autonomy: Implications for escalation, deterrence, and nuclear security (under review).
- 'Catalytic Nuclear War' in the Age of AI & Autonomy: New military technology and inadvertent escalation risk between nuclear powers.
- Re-thinking Deterrence in the Age of Intelligent Machines: Artificial intelligence, autonomy, and the unravelling of the nuclear deterrence regime between nuclear-armed powers.
- The diffusion of AI technology to non-state actors: Implications for nuclear security, and stability between nuclear-armed powers.
- AI & Cybersecurity: How might AI affect the cyberspace threat environment, and what can we learn from the cyber community for AI to manage the risks posed by AI-augmented cyber-attacks? - with Eleanor Krabill.
- The diffusion of AI technology to non-state actors: Implications for nuclear security, and stability between nuclear-armed powers.
- What are the risks and trade-offs of pre-delegating military force to machines?
- The ways emerging technology increase the potential for asymmetrical conflict between great powers.

TEACHING

- **Middlebury Institute of International Studies** (2019- present) Guest Lecturer: (under/postgraduate level) Emerging Technologies & Nuclear Nonproliferation; AI & Nuclear Security; 21st Century Nuclear Nonproliferation Challenges; China's Nuclear Policy; and the AI-Cyber Security Nexus. Supervision of under/postgraduate dissertations and projects.

- **University of Leicester** (Jan 2018 to Jan 2019) Instructor: (postgraduate level) Post-Cold War World Order; Intelligence & Security; and International Security (in partnership with the NATO Defense College, Rome). Supervision of under/postgraduate dissertations and projects.
- **Niccolo Cusano (Italian) University, London** (Oct 2017 to Sep 2018) Instructor & convener: (distance-learning, under/postgraduate level) International Security; Government & Politics in China; American Politics; Terrorism and Fundamentalism in the 20th & 21st Centuries - in partnership with the Open University, UK.
- **Hong Kong Baptist University** (Apr 2017 to Sep 2017) Instructor & convener: (under/postgraduate level) International Political Economy; and World Order Issues.

CONFERENCE PRESENTATIONS

- "Artificial Intelligence & Strategic Stability: Implications for Nuclear Security, Deterrence, & Escalation in Future Warfare," Project on Nuclear Issues (PONI) Capstone Conference Series, U.S. STRATCOM, Nebraska 2020.
- "AI & Strategic Stability: Implications for nuclear security, deterrence, & escalation in future warfare," ISA Annual Convention, Honolulu 2020 (paper accepted – conference cancelled).
- "AI and non-nuclear threats to nuclear stability," ISA Annual Convention, Honolulu 2020 (paper accepted - conference cancelled).
- "Artificial Intelligence & Strategic Stability: Implications for Nuclear Security, Deterrence, & Escalation in Future Warfare," Project on Nuclear Issues (PONI) Winter Conference, CSIS Washington D.C. 2019.
- "AI Revolution: Shifting Power, Strategic Stability, & Future Warfare," BISA Annual Conference, London 2019.
- "The Impact of Artificial Intelligence on Strategic Stability, Escalation, & Nuclear Security," U.K. Project on Nuclear Issues (PONI) Annual Conference, London 2019.
- "China's Vision of the Future Network-Centric Battlefield: Cyber, Space and Electromagnetic Asymmetric Challenges to the U.S.," BISA Annual Conference, Bath 2018.
- "China's Vision of the Future Network-Centric Battlefield: Cyber, Space and Electromagnetic Asymmetric Challenges to the U.S.," ISA Annual Convention, San Francisco 2018.
- "AI and Future Warfare," UK Deterrence & Assurance Academic Alliance (DAAA) King's College 2018.
- "Chinese Approaches to Nuclear Warfighting:" U.S.-China relations and strategic stability in the Asia-Pacific," BISA U.S. Foreign Policy Group, Edinburgh 2017.
- "Chinese Evolving Approaches to Nuclear Weapons and Implications for U.S.-China Relations and Strategic Stability in the Asia-Pacific," ISA Annual Convention, Baltimore 2017.
- "China's Nuclear Modernization & Ambitions: Challenges to U.S. Primacy in East Asia and Risks to Regional Strategic Stability," BISA Conference, Edinburgh 2016.
- "Washington's Perceptions and Misperceptions of Beijing's Anti-access Area-denial Strategy: Implications for Military Escalation Control and Strategic Stability," BISA U.S. Foreign Policy Conference, Bath 2016.

FELLOWSHIPS & AFFILIATIONS

- Postdoctoral Research Fellow - The James Martin Center for Nonproliferation Studies (2019 - present)
- Honorary Visiting Fellow - University of Leicester (2017- present)
- British International Studies Association - Member (2016 - present)
- International Studies Association - Member (2016 - present)

REVIEWER

- *The Pacific Review* (2019 - present)
- *Defense & Security Analysis* (2019 - present)
- *The Nonproliferation Review* (2019 - present)
- *War on the Rocks* (2020 - present)
- Palgrave Macmillan (2019 - present)
- Georgetown University Press (2019 - present)
- Manchester University Press (2019 - present)

POLICY ENGAGEMENT

- "Deep-dive Discussion on Conventional Nuclear Integration," Project on Nuclear Issues (PONI) Capstone Conference Series, U.S. STRATCOM, Nebraska 2020.
- "Artificial Intelligence: A Threat to Strategic Stability?" Public Speaker Seminar Series at The James Martin Center for Nonproliferation Studies, Monterey 2019.
- "China's Nuclear Policy, Posture & Controversies," Lecture to Visiting Fellows at The James Martin Center for Nonproliferation Studies, Monterey 2019.
- Georgetown University & Sandia National Laboratories, "Strategic Force Analysis Boot Camp," Albuquerque, New Mexico, August 2019 - Funded by the Carnegie Foundation, New York.

PRIVATE SECTOR EXPERIENCE

HSBC Qianhai Securities, Shenzhen, PRC (Jan 2018 to Dec 2018)
- Director - Head of China Execution Services

Bank of China International, Hong-Kong (Aug 2010 to Feb 2017)
- Director - Execution & Research Dept.

Credit Suisse, Taipei, Taiwan (Jun 2007 to Aug 2010)
- Senior Vice President - Sales & Trading Dept.

CITIC Securities Ltd, Beijing, PRC (Apr 2005 to Apr 2007)
- Vice President - Sales & Trading Dept.

Langlade Capital Management LLP, London (Jan 2004 to Feb 2005)
- Head Equity Trader.

BNP Paribas, London (Oct 2000 to Dec 2003)
- European Equity Sales-Trader - Sales & Trading Dept.

Goldman Sachs International, London (Feb 1998 to Sep 2000)
- Financial Analyst - Equity Derivatives Dept.

LANGUAGES

- Mandarin: Fluent
- Securities Association of China (SAC) "Chinese Securities Laws & Regulations Exam" (Pass - Mandarin, 2018).