

## JAMES S. JOHNSON

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### EDUCATION

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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

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

- Postdoctoral Research Fellow

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

- Postdoctoral 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

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#### 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* - OUP/Manchester University Press (under advanced contract).

#### Peer-review articles:

- "Artificial Intelligence in Future Hyper-Warfare: A Perfect Storm of Instability?" *The Washington Quarterly* (forthcoming, Spring 2020).
- "AI, Drone Swarming, & Escalation Risks in Future Warfare," *The RUSI Journal* (forthcoming, Spring 2020).
- "Artificial Intelligence: A Threat to Strategic Stability," *Strategic Studies Quarterly*, Vol. 14, Issue 1 ('Feature Article,' 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 China’s Challenge to US Innovation Leadership,” in Reuben Steff, Simone Soare, and Joe Bortun (ed), *Emerging Technologies and International Security: Machines, the State and War*, Routledge (forthcoming, 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 (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 & policy reports:**

- “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:**

- Delegating Strategic Decisions to Machines: Dr Strangelove redux? (under review).
- U.S.-China Crisis Stability in an Era of Artificial Intelligence and Autonomy: Implications for escalation, deterrence, and nuclear security (under review).
- 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**

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- **Middlebury Institute of International Studies** (2019- present) Instructor: (under/postgraduate level) Emerging Technologies & Nuclear Nonproliferation; AI & Nuclear Security; 21<sup>st</sup> Century Nuclear Nonproliferation Challenges; Sino-U.S. Strategic Relations; 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

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- “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).
- “AI and non-nuclear threats to nuclear stability,” ISA Annual Convention, Honolulu 2020 (paper accepted).
- “Artificial Intelligence & Strategic Stability: Implications for nuclear security, deterrence, & escalation in future warfare,” Project on Nuclear Issues (PONI) Winter Conference Series, 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

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- 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

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- The Pacific Review (2019 - present)
- Palgrave Macmillan (2019 - present)
- Georgetown University Press (2019 - present)
- Manchester University Press (2019 - present)
- War on the Rocks (2020 - present)

## PROFESSIONAL MEMBERSHIPS & POLICY ENGAGEMENT

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- “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

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**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

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