

## ALANNA KROLIKOWSKI

Humanities and Social Sciences, 500 W. 14th St, Rolla, MO, 65409, Rm 129  
akro@mst.edu | office: (+1) 573-341-6128 | mobile: (+1) 573-466-2138

### ACADEMIC EMPLOYMENT

- 2017 Oct. - Missouri University of Science and Technology, Department of History and Political Science. Assistant professor of political science.
- 2016-17 University of Alberta, China Institute. Postdoctoral research fellow.
- 2015-16 University of Göttingen, Institute for Sociology and East Asian Seminar. Acting Chair Professor of the Society and Economy of Modern China.
- 2013-15 Harvard University, Fairbank Center for Chinese Studies. Postdoctoral research fellow.

### EDUCATION

- 2013 University of Toronto. Doctor of Philosophy (PhD) in Political Science with concentrations in international relations and comparative politics.
- 2006 University of Toronto. Master of Arts in International Relations.
- 2005 McGill University. Bachelor of Arts, First Class (Dean's Honour List) in Political Science and International Development Studies.

### PUBLICATIONS

#### Refereed journal articles

- A. Krolikowski. "Shaking Up and Making Up China: How the Party-state Compromises and Creates Ontological Security for its Subjects." Accepted at the *Journal of International Relations and Development*.
- A. Krolikowski. "Brittle China? Economic and political fragility with global implications," *Global Policy* 8: S4 (2017): 42-53.
- M. Elvis, T. Milligan, and A. Krolikowski. "The Peaks of Eternal Light: A Near-term Property Issue on the Moon," *Space Policy* 38 (2016): 30-38.
- A. Krolikowski and E. David. "Commercial On-Orbit Satellite Servicing: National and International Policy Considerations Raised by Industry Proposals," *New Space Journal* 1: 1 (2013): 1-14.

- A. Krolikowski. “State Personhood in Ontological Security Theories of International Relations and Chinese Nationalism: A Sceptical View,” *Chinese Journal of International Politics* 2 (2008): 109-133.

### Published testimony

- A. Krolikowski. “Inputs into China’s Space Programs: Vision, Policy, and Organization,” in *China’s Space and Counterspace Programs: Hearing before the U.S.-China Economic and Security Review Commission* (Washington, DC: United States-China Economic and Security Review Commission, 2015): 81-92.
- A. Krolikowski. “China’s Civil and Commercial Space Activities and their Implications,” in *The Implications of China’s Military and Civil Space Program: Hearing before the U.S.-China Economic and Security Review Commission* (Washington, DC: United States-China Economic and Security Review Commission, 2011): 100-111.

### Book chapters, reviews, and monographs

- A. Krolikowski, “Specialist Communities in China’s Aerospace Technology and Innovation System: The Cultural Dimension,” in eds. Ligang Song, Ross Garnaut, Cai Fang, and Lauren Johnston, *China’s New Sources of Economic Growth Vol. 2: Human Capital, Innovation, and Technological Change* (Canberra, Australia: Australian National University Press, 2017): 263-285
- A. Krolikowski, “Review of ‘China’s International Relations and Harmonious World: Time, space and multiplicity in world politics’ by A. Nordin,” *Conflict and Cooperation* 52 (3): 446-448.
- A. Krolikowski. “China’s Defense Industries at 90: Institutionalization, Specialization, and Professionalization,” in ed. P. Saunders and A. Ding (volume forthcoming).
- A. Krolikowski. “Is there a Chinese Culture of Defense Technology and Innovation?” in ed. A. L. Miller (volume forthcoming, accepted 3 Mar. 2015).
- K. Pollpeter, P. Basha, and A. Krolikowski. “The Highest Secret: Research, Development, and Acquisition in the Beidou Navigation Satellite Programs,” in eds. T.M. Cheung and K. Pollpeter (volume forthcoming).
- A. Krolikowski and M. Raska. “China’s Defense Aviation Industry: AVIC’s Innovation Strategies and Challenges,” in ed. T. M. Cheung (volume forthcoming).
- A. Krolikowski. “Specialist Communities: People and Cultures in China’s Defense Science and Technology System” in eds. T.M. Cheung and K. Pollpeter, *The Human Dimension of China’s Defense Science, Technology, and Innovation System* (La Jolla, CA: University of California Institute on Global Conflict and Cooperation, 2015): 1-6.
- K. Pollpeter, P. Basha, and A. Krolikowski. “Policy Brief 2014-7: The Research, Development, and Acquisition Process for the Beidou Navigation Satellite Programs” in ed. K. Pollpeter, *Getting to Innovation: Assessing China’s Defense Research, Development, and Acquisitions System* (La Jolla, CA: University of California Institute on Global Conflict and Cooperation, 2014): 57-61.

- M. Raska and A. Krolikowski. “China’s Military Aviation Industry: In Search of Innovation.” *Research brief 2013-5, Study of Innovation and Technology in China Project* (San Diego, CA: University of California Institute for Global Conflict and Cooperation, 2013): 37-39.
- A. Krolikowski. “Leveraging Commercial Air and Space: How China’s Industries Seek, Find and Create New Opportunities Abroad” (in Chinese and English) in eds. G. Bertsch and L. Zhu, *China and the United States: New Scholarship on the Intersection of Trade, Nonproliferation and Security* (Beijing, China: China Foreign Affairs University, 2011): 361-83.
- A. Krolikowski. “Kazakhstan and Xinjiang: A Discussion of Competing Explanations,” in *Revolution or Evolution? Emerging Security Threats in the 21<sup>st</sup> Century* (Halifax, NS: Dalhousie University Centre for Foreign Policy Studies Press, 2006): 139-166.

### Other publications

- A. Krolikowski. “Advances in China’s Defense Industries: Institutionalization, Specialization, and Professionalization.” *La lettre de l’Institut de recherche stratégique de l’Ecole militaire* (2016): 3-6.
- M. Raska and A. Krolikowski. “China's Defence Aviation Industry: Toward Stealth Innovation?.” *East Asia Forum* (2013).
- A. Krolikowski. “In Different Orbits? China is Steadily Forging Ties with Other Countries’ Space Programs – Except the U.S.” *AmCham China Brief* 20, no. 1 (2012): 8-10.
- J. Logsdon and A. Krolikowski. “Enhancing U.S.-China Relations in Space.” *China-U.S. Focus* (2011).

## TEACHING

### Course instruction

- *Science, Technology, and Innovation Policy* (forthcoming, Spring 2018)
- *China’s Pursuit of Advanced Science and Technology* (Summer 2016)
- *Business and Politics in China* (Winter 2015-16)
- *Modernization Theory and China* (Winter 2015-16)
- *Chinese Political Economy I: Economic Ideas and Policy Choices* (Summer 2016)
- *Chinese Political Economy II: Developmental State or Trapped Transition?* (Winter 2015-16)
- *The Effective Use of Chinese Sources in Research* (Winter 2015-16)
- *Research Strategies for Studying China* (Summer 2016)

## PRESENTATIONS AND TALKS

- “The Peaks of Eternal Light: A Near-term Property Issue on the Moon” (Paper with M. Elvis and T. Milligan). Global Space Exploration Conference. 2017. Beijing, China.
- “In Pursuit of Science, Settlement, Security, or Sales? Policymaking for Asteroid Activities” (Paper with M. Elvis). Global Space Exploration Conference. 2017. Beijing, China.
- “China in Aeronautics and Space.” Canadian Embassy. 2017. Beijing, China.
- “China’s Comac Pursues Innovation and Integration in the Global Commercial Aircraft Market.” China Business Studies Initiative conference. 2017. Langfang, China.
- “Brittle China? Economic and political vulnerabilities with global implications.” Fudan University. 2017. Shanghai, China.
- “China’s Evolving Aerospace Industries: A Global Outlook.” Innovation, Science, and Economic Development Canada. 2016. Ottawa, Canada.
- “Shaking Up and Making Up China 2.0” (Paper). Workshop on Ontological Security in International Politics. University of Birmingham. 2016. Birmingham, UK.
- “China’s Trade in Strategic High-tech Sectors.” Emerging Scholars of China Conference. Global Affairs Canada. 2016. Ottawa, Canada.
- “China’s Defense Industries at 90: Institutionalization, Specialization, and Professionalization” (Paper). U.S. National Defense University - RAND - Center for Advanced Policy Studies People’s Liberation Army Studies Conference. 2015. Taipei, Taiwan.
- “Shaking Up and Making Up China: How the Party-state Compromises and Creates Ontological Security for its Subjects” (Paper). Annual meeting of the International Studies Association. 2014. Toronto, Canada.
- “China and the United States in Civil-Commercial Air and Space: Specialist Cultures and International Relations in High-Tech Sectors.” Harvard University. 2013. Cambridge, MA.
- “Is there a Chinese culture of defense technology and innovation?” (Paper). Conference on Historical Influences on China’s Science and Technology Development at UC San Diego. 2013. La Jolla, CA.
- “Asia-Pacific trade and industrial partnerships in civil-commercial aircraft and spacecraft manufacture” (Paper). International Astronautical Congress. 2013. Beijing, China.
- “China and the United States in Civil-Commercial Air and Space: Specialist Cultures and International Order in High-Technology Sectors.” Princeton University. 2013. Princeton, NJ.
- “Ontological security in international relations and state actorhood: Observations from contemporary China” (Paper). Workshop on Ontological Security. 2013. Lund, Sweden.
- “China-U.S. relations in commercial space and aircraft manufacture: Specialist cultures and transnational industry integration” (Paper). International Astronautical Congress. 2012. Naples, Italy.

- “Commercial On-Orbit Satellite Servicing and Active Debris Removal: Policy Considerations Raised by Industry Plans” (Paper, with E. David). International Astronautical Congress. 2012. Naples, Italy.
- “Commercial On-Orbit Satellite Servicing: Policy Considerations Raised by Industry Plans” (Paper, with E. David). International Astronautical Congress. 2012. Naples, Italy.
- “Innovation in China’s Defense Aviation Industry” (Paper). Minerva Workshop on China’s Defense Industry at the University of California at San Diego. 2012. La Jolla, CA.
- “China-U.S. Relations in Civil-Commercial Air and Space: Specialist Cultures and International Order.” Bovay Seminar in Science and Technology Studies. Cornell University. 2011. Ithaca, NY.
- “China’s Civil and Commercial Space Activities.” U.S. Department of Commerce. 2011. Washington, DC.
- “China’s Space Policy and the United States.” Event organized by the Secure World Foundation titled *Asian Space Policy and the United States*. 2011. Washington, DC.
- “U.S.-China Cooperation and Competition in Civil-Commercial Air and Space.” Center for International and Security Studies at the University of Maryland. 2011. College Park, MD.
- “China-U.S. Relations in Civil-Commercial Air and Space: Sectoral Cultures and the Transnational Integration of Sensitive Sectors” (Paper). International Studies Association Annual Meeting. 2011. Montreal, Canada.
- “Technical Controversy and the Management of Sensitive Technologies.” ISODARCO Beijing. 2010. Beijing, China.
- “Transnational Technical Cooperation in Aircraft Manufacture.” Avionichina International Avionics Conference. 2010. Xi’an, China.
- “China’s Aerospace Development Strategy: European and American Technology Transfers in the Aircraft and Space Sectors” (Paper). British Inter-University China Council conference. 2009. London and Manchester, UK.
- “What Can a Cultural Studies Perspective Tell Us about China-U.S. Relations in Aerospace?” Union of Concerned Scientists 21<sup>st</sup> Summer Symposium. 2009. Shanghai, China.
- “Aerospace Technologies in China-U.S. Relations: Cooperation and Competition in the Space and Aircraft Sectors” (Paper). Tsinghua University International Relations Conference. 2009. Beijing, China.
- “Scientists and Technologists in IR Theory: Insights from China Studies and Science Studies” (Paper). American Political Science Association Annual Meeting. 2008. Boston, MA.

## RESEARCH PROJECTS

- **Aircraft, spacecraft, and statecraft: Specialist cultures and U.S.-China high-tech trade.** This book project explores why and how China’s trade with the United States varies across comparable strategic, dual-use high-tech sectors. It focuses on the civil-commercial aircraft and spacecraft

manufacturing sectors and on trade in sensitive items, revealing how specialist cultures shape policy.

- **Top-down upgrading: How China’s policymakers engineer industrial transformation.** This second book project compares four technology indigenization programs in China. Two are in the space sector: global navigation and Earth-observation satellite constellations. The other two are in informatics: measures related to the Internet of Things and to develop integrated command platforms for joint-agency operations. The study explores why and how the outcomes of such defense-technology indigenization efforts vary.
- **Policy and technology at the final frontier.** This project explores how emergent high-tech industries co-evolve with international policy regimes, including specifically on-orbit satellite servicing and asteroid mining. Addressing live policy dilemmas, it examines the crosscutting strategies pursued by entities striving for nominally common goals.
- **Ontological security and China’s transformation.** This project examines how individual Chinese citizens cope with threats to their ontological security, understood as their basic need for a sense of continuity and order in events, amid unrelenting societal and technological transformation.

## SELECTED AWARDS AND GRANTS

- University of Melbourne, McKenzie Postdoctoral Fellowship (declined). 2017-20.
- University of Alberta, China Institute, Postdoctoral Fellowship. 2016-17.
- Hertie School of Governance, Dahrendorf EU-China Research Fellowship. 2016.
- Harvard University, Post-Doctoral Professional Development Grant. 2014.
- Princeton-Harvard China and the World Program Fellowship. 2013-14.
- Social Sciences and Humanities Research Council (SSHRC) Postdoctoral Fellowship. 2013-15.
- Sylvia Ostry Doctoral Fellowship in International Policy. 2012.
- Fulbright Foundation Student Award, Canada-United States. 2010-11.
- SSHRC Joseph Armand Bombardier Canada Graduate Scholarship. 2007-10.
- SSHRC Canada Graduate Scholarship Michael Smith Foreign Study Supplement. 2009.
- University of Toronto, Department of Political Science, Student Award. 2008, 2009, and 2010.
- Inter-University Consortium for Political and Social Research, Janet Box-Steffensmeier Award. 2008.
- Dr. David Chu Scholarship for Asia Pacific Studies. 2007-08 and 2008-09.
- Canada-China Scholar’s Exchange Program Scholarship. 2007-08 (declined).
- Ontario Graduate Scholarship. 2006-07 and 2007-08 (declined).

## **RESEARCH AND RELATED PROFESSIONAL EXPERIENCE**

- 2010-11                    George Washington University. Space Policy Institute. Washington, DC.  
Visiting Fulbright doctoral researcher.
- 2008-09                    Chinese Academy of Social Sciences. Institute of World Economics and Politics.  
Beijing, China. Visiting doctoral researcher.
- 2005, Jan.- Jun.            Canadian Embassy. Beijing, China. Research and policy analyst in political-  
economic section.
- 2004, May-Aug.            Department of Foreign Affairs and International Trade. China and Mongolia  
Division. Ottawa, Canada. Political research analyst.

## **LANGUAGE PROFICIENCY AND TRAINING**

- 2009                    Inter-University Program for Chinese Language Study at Tsinghua University (IUP).  
Beijing, China. Two terms of courses in Mandarin Chinese.
- 2007                    Beijing Language and Culture University. Beijing, China. Intensive summer Mandarin  
Chinese courses.
- 2002                    Nankai University. Tianjin, China. Intensive summer courses in Mandarin Chinese.
- 2001-04                    McGill University. Montreal, Canada. Chinese-language courses at levels I to III and  
Chinese for Business completed to meet requirements of BA Minor in East Asian  
Languages and Civilizations.