

GIL BARAM

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Tel Aviv University
55 Haim Lebanon St.
Tel Aviv, ISRAEL

EDUCATION

- Post-Doc Center for International Security and Cooperation, Freeman Spogli Institute for International Studies (FSI), Stanford University** 2021-2022
Cyber Security Postdoctoral Fellow
Mentors: Prof. Amy Zegart and Dr. Herb Lin
- PhD School of Political Science, Government and International Affairs Tel Aviv University** 2014-2020
Dissertation: “National Strategies During Cyber Conflicts”
Committee: Prof. Isaac Ben-Israel and Dr. Udi Sommer (chairs)
Prof. Yotam Margalit, Prof. Yuval Elovici
- MA Security Studies, Tel Aviv University** 2011-2013
Thesis: “The Effect of Cyber War Technologies on Force Buildup of the United States and Israel” (Graduated Magna Cum Laude)
Advisor: Prof. Isaac Ben-Israel
- BA Political Science, History (double major), Tel Aviv University** 2007-2010

GRANTS, HONORS AND AWARDS

- Fulbright Post-Doctoral Scholar Award** 2021-2022
- Women in Cyber Security Awards – finalist** 2019
- Blavatnik Interdisciplinary Cyber Research Center (ICRC) research grant** 2018
“National strategies during cyber conflict.” PI: Dr. Udi Sommer (~25,000\$)
- Blavatnik Interdisciplinary Cyber Research Center (ICRC) research grant** 2016
“The deniability mechanism in the cyber age – Its effect on states' behavior in the international system.” PI: Prof. Isaac Ben Israel (~25,000\$)
- Ph.D excellence scholarship** 2014-2018
Department of Political Science, Tel Aviv University
- Raffa and Paula Atlas Endowment Fund Award** 2013
Award for women in national security
Tel Aviv University

Richard and Rhoda Goldman Fund for Better Government 2013
Junior Fellow scholarship
Tel Aviv University

Award for academic achievements (for MA students) 2012
The Gershon H. Gordon Faculty of Social Science, Tel Aviv University

ACADEMIC EXPERIENCE

Nanyang Technological University, Singapore 2017- Present
Adjunct research fellow, Centre of Excellence for National Security (CENS), S. Rajaratnam School of International Studies (RSIS)

Tel Aviv University, Israel 2016 - Present
Research fellow, Blavatnik Interdisciplinary Cyber Research Center (ICRC)

Tel Aviv University, Israel 2017 - 2021
Head of research, Yuval Ne'eman Workshop for Science, Technology and Security

- Head of the cyber security and space policy center of excellence

Tel Aviv University, Israel 2012 - 2016
Senior Researcher, Yuval Ne'eman Workshop for Science, Technology and Security

- Fields of expertise - cyber security, space policy, international relations theories, security studies and technology

TEACHING EXPERIENCE

Ariel University, Israel 2020 - 2021
Introduction to Cyber Adversaries and Threats course
Business Information Technology professional training program

Tel Aviv University, Israel 2014 - 2017
Teaching Assistant, School of Political Science, Government and International Affairs

- Taught International Relations 101, an undergraduate course averaging 70 students per semester
- Coordinated grading with a team of three teaching assistants

Journal Publications (Peer-Reviewed)

Baram, G. and Weschler, O., "Cyber Threats to Space Systems: Current Risks and the Role of NATO." *Leveraging Emerging Technologies in Support of NATO Air & Space Power, Joint Air & Space Power Conference 2020 - Conference Read Ahead*. June, 2020. <https://www.japcc.org/cyber-threats-to-space-systems/>

Antebi, L. and Baram, G., "Cyber and Artificial Intelligence – Technological Trends and National Challenges." *Cyber, Intelligence and Security*. Vol. 4, no. 1, 2020. https://www.inss.org.il/wp-content/uploads/2020/04/Cyber4.1ENG_7-133-149.pdf

Baram, G. and Ben Israel, I., "The Academic Reserve - Israel's Fast Track to High-Tech Success," *Israel Studies Review*, vol. 34: 2, 2019, pp. 75-91. <https://doi.org/10.3167/isr.2019.340205>

Shapira, Z. and Baram, G., "Space Arms Race: Global Trends and National Interests," *Cyber, Intelligence and Security*, Vol. 3, no. 2, October 2019. <https://www.inss.org.il/wp-content/uploads/2019/11/Shapira-and-Baram.pdf>

Baram, G. and Barel, O., "Information Warfare Between the Superpowers in the 21st Century," *The IDF Journal on Operational Art, Dado Center for Interdisciplinary Military Studies*. September 2019. <https://bit.ly/2nnX3Pd> [Hebrew].

Baram, G. and Sommer, U., "Covert or not Covert: National Strategies During Cyber Conflict," In *2019 11th International Conference on Cyber Conflict (CyCon)*, IEEE, pp. 197-212. <https://ieeexplore.ieee.org/abstract/document/8756682>

Baram, G. and Menashri, H., "Why Can't We Be Friends? Challenges to International Cyberwarfare Cooperation Efforts and the Way Ahead," *Comparative Strategy*, vol. 38: 2, 2019, pp. 89-97. <https://doi.org/10.1080/01495933.2019.1573069>

Baram, G., Cohen, D., Shapira, Z., Wechsler O., Hight, N. and Ben Israel, I., "Strategic Trends in the Global Cyber Conflict," *Cyber Security: A Peer Review Journal*, vol. 2:3, 2019, pp. 238-250. <https://www.ingentaconnect.com/content/hsp/jcs/2018/00000002/00000003/art00006>

Cohen, D. and Baram, G., "The Use of Cyberwarfare in Military Influence Operations," *Maa'rachot* (IDF journal), 480-481, 2018, pp. 64-69. <http://maarachot.idf.il/PDF/FILES/4/114324.pdf> [Hebrew].

Baram, G., "Cyber warfare and Israel's National Security Concept," *Middle East Quarterly*, winter 2017, pp. 1-10. <http://www.meforum.org/6399/israeli-defense-in-the-age-of-cyber-war>

Paikowsky, D., Baram, G. and Ben Israel, I., "Trends in Space Activities in 2014: The Significance of the Space Activities of Governments," *Acta Astronautica*, vol. 118, no. 3, 2016, pp. 187–198. <https://doi.org/10.1016/j.actaastro.2015.10.007>

Menashri, H. and Baram, G., "Critical Infrastructures and Their Interdependence in a Cyber Attack –The Case of the U.S.," *Military and Strategic Affairs*, vol. 7, no. 1, 2015, pp. 79-100. <https://www.inss.org.il/publication/critical-infrastructures-and-their-interdependence-in-a-cyber-attack-the-case-of-the-u-s/>

Paikowsky, D., Baram, G. and Ben Israel, I., "Trends in Government Space Activity and Policy in 2013," *Astropolitics*, vol. 12: 3-4, 2014, pp. 107-126. <https://doi.org/10.1080/14777622.2014.961889>

Baram, G., "Preparing for Cyberwar," *Maa'rachot* (IDF journal), vol. 456, August 2014, pp.22-27 <http://maarachot.idf.il/PDF/FILES/6/113476.pdf> [Hebrew].

Baram, G., "The Effect of Cyberwar Technologies on Force Buildup: The Israeli Case," *Military and Strategic Affairs*, vol. 5, no. 1, 2013, pp. 23-43. <https://www.inss.org.il/publication/the-effect-of-cyberwar-technologies-on-force-buildup-the-israeli-case/>

Work in Progress

Baram, G., Sommer, U. and Ben Israel, I., "Emerging from the Shadows: When Cyber Attackers Go Public" (under review).

Baram, G. "Public Secrets: The Changing Place of Secrecy in Cyber Operations."

Abramson, Y. and Baram, G., "Image Management during Cyber Conflict,"

Baram, G. "The Place of Intelligence Agencies in the Attribution Process of Cyber Intrusions."

Conference Papers

Baram, G., Sommer, U. and Ben Israel, I., "Emerging from the Shadows: When Cyber Attackers Go Public." *International Studies Association Annual Meeting*, Las Vegas, April 2021.

Abramson, Y. and Baram, G., "Image Management during Cyber Conflict," *International Studies Association North East*, Baltimore, November 2020.

Abramson, Y. and Baram, G., "Cyber Rules: Cyber Practices and Alliances in the Middle East," *International Studies Association Annual Meeting*, Honolulu, April 2020 (Canceled due to COVID-19).

Baram, G. "Decision Making During Cyber Conflict", presented at the International Forum on Cyber Politics, *The 9th International Cyber Week Conference*, Tel Aviv University, June 2019.

Baram, G., "Trends in Space Policy and Security Activities in 2017." *The 13th Ilan Ramon International Space Conference*, Tel Aviv University, January 2018.

Baram, G., "The Effect of Cyberwar Technologies on Force Buildup: The Israeli Case," *ISPSA Annual International Conference*, Hadassah Academic College, Jerusalem, May 26, 2016.

Baram, G., "The Effect of Cyberwar Technologies on Force Buildup: The Case of the United States and Israel," *the 9th International Conference in Political Science, International Relations, and Public Policy*, The Hebrew University, Jerusalem, December 12, 2013.

Policy Publications and Commentary

Baram, G. "Storm Winds – on the meaning of deterrence in cyber incidents," *Israeli Defense Forces Blog*. January 10, 2021. <https://bit.ly/3imQ4yj> [Hebrew].

Baram, G. "Indicting Russia's Most Destructive Cyberwar Unit: The Implications of Public Attribution," *Council on Foreign Relations*. November 2020. <https://on.cfr.org/3qqdoyW>

Baram, G. "Cyber Warfare during Corona Times: Health Organizations at the Forefront." *Israeli Defense Forces Blog*. July 8, 2020. <https://bit.ly/39hQtO5> [Hebrew].

Baram, G. and Lim, K., "Israel and Iran Just Showed Us the Future of Cyberwar with Their Unusual Attacks." *Foreign Policy*, June 5, 2020. <https://foreignpolicy.com/2020/06/05/israel-and-iran-just-showed-us-the-future-of-cyberwar-with-their-unusual-attacks/>

Lim, K. and Baram, G., "Iran Is Mastering the Final Frontier." *Foreign Policy*, March 14, 2019. <https://foreignpolicy.com/2019/03/14/iran-is-mastering-the-final-frontier/>

Baram, G., "The Theft and Reuse of Advanced Offensive Cyber Weapons." *Council on Foreign Relations*, June 19, 2018. <https://www.cfr.org/blog/theft-and-reuse-advanced-offensive-cyber-weapons-pose-growing-threat>

Paikowsky, D. and Baram, G., "Space Wars - Why Our Space Systems Need an Upgrade," *Foreign Affairs*, January 7, 2015. <http://www.foreignaffairs.com/articles/142690/deganit-paikowsky-and-gil-baram/space-wars>

Paikowsky, D. and Baram, G., "Cyber Threat: Achilles Heel of Space Systems?"
Ynet, September 11, 2014.
<http://www.ynet.co.il/articles/0,7340,L-4570268,00.html> [Hebrew].

NON PEER-REVIEWED PUBLICATIONS

Menashri, H. and Baram, G., "North Korea's Cyber Capabilities – Current status and the way ahead." Yuval Ne'eman Workshop for Science, Technology and Security, Tel Aviv University. September 2020.

INVITED TALKS AND LECTURES

"Solar Winds and Cyber Warfare between Nation-states in 2020," Globes Cyber Security Summit. January 2021.

"Cybersecurity and AI – New Risks to National Security," An Israeli Eye on AI Conference, Israeli Ministry of Foreign Affairs – Warsaw embassy. November 24, 2020.

"Cyber and National Security," Maa'riv First National Security Conference, March 2019.

"Global Trends in International Cyber Conflict," Atidim Management Forum (senior Israeli managers), April 2018.

"Farewell Operation – The First Logic Bomb," The Dov Lautman Unit for Science Oriented Youth – Tel Aviv University, Summer 2014.

PROFESSIONAL SERVICE

External reviewer for: Journal of Cyber Policy; Journal of Global Security Studies.

Member: International Studies Association (ISA); From Stuxnet to ISIS – Research Group on Cyber Conflicts in the Middle-East, The Hebrew University, Jerusalem; Forum Devora – Women in International Security.

PROFESSIONAL EXPERIENCE

Prime Minister's Office, Israel – Senior cybersecurity analyst 2008 to 2014

- Oversaw formulation of an integrated viewpoint for senior management
- Manager of training program for new employees

MILITARY SERVICE

Israeli Air Force Squadron operations officer [Lieutenant] Oct 2002 - Oct 2005

LANGUAGES

Fluent in Hebrew (Native) and English

REFERENCES

Prof. Isaac Ben Israel

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