

# GIL BARAM, PH.D.

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<https://gilbaram.com>

## EDUCATION

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<b>Post-Doc Cyber Escalation Lab</b> <b>Center for Peace and Security Studies</b> <b>University of California, San Diego</b> PI: Prof. Erik Gartzke	2022-2023
<b>Post-Doc Center for International Security and Cooperation,</b> <b>Freeman Spogli Institute for International Studies,</b> <b>Stanford University</b> Fulbright Cybersecurity Postdoctoral Fellow Mentors: Dr. Herb Lin, Dr. Amy Zegart	2021-2022
<b>PhD Political Science, Government and International Affairs</b> <b>Tel Aviv University</b> Dissertation: “National Strategies during Cyber Conflicts” Committee: Prof. Isaac Ben-Israel and Prof. Udi Sommer (chairs) Prof. Yotam Margalit, Prof. Yuval Elovici	2014-2021
<b>MA Security Studies, Tel Aviv University</b> 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	2011-2013
<b>BA Political Science, History (double major), Tel Aviv University</b>	2007-2010

## GRANTS, HONORS AND AWARDS

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<b>International Studies Association</b> Research Workshop Grant Award “Bridging Diverse Perspectives in Cybersecurity” (Lead PI)	2024
<b>Fulbright Post-Doctoral Scholar Award</b>	2021-2022
<b>Women in Cyber Security Awards – finalist</b>	2019
<b>Blavatnik Interdisciplinary Cyber Research Center (ICRC) research grant</b> “National strategies during cyber conflict.” PI: Prof. Udi Sommer	2018

<b>Blavatnik Interdisciplinary Cyber Research Center (ICRC) research grant</b> “The deniability mechanism in the cyber age – Its effect on states' behavior in the international system.” PI: Prof. Isaac Ben Israel	2016
<b>PhD excellence scholarship</b> Department of Political Science, Tel Aviv University	2014-2018
<b>Raffa and Paula Atlas Endowment Fund Award</b> Award for women in national security, Tel Aviv University	2013
<b>Richard and Rhoda Goldman Fund for Better Government</b> Junior Fellow scholarship, Tel Aviv University	2013
<b>Award for academic achievements (for MA students)</b> The Gershon H. Gordon Faculty of Social Science, Tel Aviv University	2012

#### **ACADEMIC APPOINTMENTS**

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<b>Department of Political Studies</b> <b>Bar-Ilan University</b> Senior Lecturer	Oct 2024
<b>Center for Long-Term Cybersecurity &amp; Berkeley Risk and Security Lab</b> <b>University of California Berkeley</b> Non-resident research Scholar	2023-Present
<b>Center for International Security and Cooperation</b> <b>Stanford University</b> Research affiliate	2022-Present
<b>Nanyang Technological University, Singapore</b> Centre of Excellence for National Security S. Rajaratnam School of International Studies (RSIS) Senior adjunct fellow	2017-Present
<b>Tel Aviv University, Israel</b> Blavatnik Interdisciplinary Cyber Research Center (ICRC) Senior research fellow	2016-Present
<b>Tel Aviv University, Israel</b> Head of research cyber and space, Yuval Ne'eman Workshop for Science, Technology and Security <ul style="list-style-type: none"> <li>• Leading the Center of Excellence for Cybersecurity and Space Policy.</li> <li>• Responsible for overseeing research seminars and academic events.</li> </ul>	2017-2021

**Tel Aviv University, Israel**

2012-2016

Senior Researcher, Yuval Ne'eman Workshop for Science,  
Technology and Security

Areas of Expertise: Cyber Conflict, Space Policy, Security Studies, Emerging  
Technologies.

## **RESEARCH AND PUBLICATIONS**

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### ***Journal Articles (Peer-Reviewed)***

Baram, G., “Cyber Diplomacy through Official Public Attribution: Paving the Way for Global Norms,” forthcoming *International Studies Perspectives*.

Baram, G. “Out of the Shadows: The Role of Intelligence Agencies in Revealing Offensive Cyber Operations – illustrative examples from the U.S. case,” forthcoming *International Journal of Intelligence and Counter Intelligence*.

Baram, G. “Book review: Deter, Disrupt, or Deceive: Assessing Cyber Conflict as an Intelligence Contest.” *International Studies Review*, vol. 25: 4, 2023.  
<https://doi.org/10.1093/isr/viad047>

Abramson, Y. and Baram, G., “Saving Face in the Cyberspace: Responses to Public Cyber Intrusions in the Gulf.” *Contemporary Security Policy*, vol. 45:2, 2023, pp. 210-238.  
<https://doi.org/10.1080/13523260.2023.2271794>

Baram, G. “Public Secrets: The Dynamics of Publicity in Cyber Operations” *Journal of Global Security Studies*, June 2023. <https://doi.org/10.1093/jogss/ogad013>

Baram, G. “A Sliding Scale of Secrecy: Toward a Better Understanding of the Role of Publicity in Cyber Operations,” *Journal of Cyber Policy*, vol. 7:3, 2023. pp. 275-293. <https://doi.org/10.1080/23738871.2023.2184708>

Baram, G. and Sommer, U., “Covert or not Covert: National Strategies during Cyber Conflict,” In *2019 11th International Conference on Cyber Conflict (CyCon)*, Proceedings of the IEEE, pp. 197-212. [10.23919/CYCON.2019.8756682](https://doi.org/10.23919/CYCON.2019.8756682)

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>

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>

Baram, G., “Israeli Defense in the Age of Cyber War,” *Middle East Quarterly*, winter 2017, pp. 1-10. <https://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>

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>

### ***Book Chapters***

Baram, G. and Peer N., “Cyberwarfare norms and the attribution imperative: shaping responsible state behaviour in cyberspace,” *Handbook of Cyberwarfare*, Edward Elgar Publishing, July 2024. Editors: Tim Stevens and Joe Devanny, Department of War Studies, King’s College London.

### ***Peer-reviewed Conference Papers***

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/essays/cyber-threats-to-space-systems/>

### ***Selected Workshops and Conferences Papers***

Baram, G., Vičić, J., Gartzke, E., “Unraveling the Veiled: The Complexities of Cyber Attribution and Challenges in Cyber Conflict Event Data Collection.” *International Studies Association Annual Conference*, San Francisco, April 2024.

Baram, G. “High-Tech Espionage: The Shifting Landscape of Intelligence Operations – the case of the Israeli Defense Intelligence.” *International Studies Association Annual Conference*, San Francisco, April 2024.

Baram, G., Vičić, J., Gartzke, E. “What Lurks Beneath the Tip of the Iceberg? Exploring the “Missingness” Problem in Cyber Events Data,” *American Political Science Association Annual Convention*, Los Angeles, August 2023.

Baram, G., “The Role of Intelligence Agencies in Public Attribution of Offensive Cyber Operations,” *American Political Science Association Annual Convention*, Los Angeles, August 2023.

Baram, G., Vičić, J., Gartzke, E. “Patterns of Cyber Competition: The Missingness Problem in Cyber Events Data,” *Cyber Escalation in Conflict – Bridging Policy, Data, and Theory*.

Organized by the Cyber Escalation Lab, Center for Peace and Security Studies (cPASS). University of California, San Diego (Sponsored by the Hewlett Foundation). February 2023 and September 2023 (Los Angeles).

Baram, G. “Out of the Shadows: The Role of Intelligence Agencies in Revealing Offensive Cyber Operations,” *International Studies Association Annual Meeting*, Tennessee, March 2022 (virtual).

Baram, G. “Public Secrets: The Dynamics of Publicity in Cyber Operations,” *American Political Science Association Annual Meeting*, Seattle, September 2021 (virtual).

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 (virtual).

Abramson, Y. and Baram, G., “Image Management during Cyber Conflict,” *International Studies Association North East*, Baltimore, November 2020 (virtual).

Baram, G. “Decision Making during Cyber Conflict”, presented at the International Forum on Cyber Politics, *the 9<sup>th</sup> International Cyber Week Conference*, Tel Aviv University, June 2019.

## **TEACHING EXPERIENCE AND CERTIFICATION**

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**University of California Berkeley** 2023-2024

Co-instructor: Future of cybersecurity working group

**Stanford University**, California

*Course Design Institute for Graduate Students and Postdoctoral Scholars certificate*

Aug 2022

**Stanford University**, California

*Entering Mentoring: A Needs-Based Approach to Inclusive and Contextually Aware Mentorship*

May 2022

### **SELECTED INVITED TALKS AND LECTURES**

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“Israel’s Cyber Power: National Security, Technology and Intelligence,” Columbia University, New York. March 2024.

“A Sliding Scale of Secrecy: Toward a Better Understanding of the Role of Publicity in Cyber Operations.” School of International and Public Affairs (SIPA), Columbia University. November 2022.

“The Role of Intelligence Agencies in Public Attribution of Offensive Cyber Operations,” CISAC weekly seminar. Stanford University. January 2022.

“Solar Winds and Cyber Warfare between Nation-states in 2020,” Globes Cyber Security Summit. Tel Aviv, 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. Tel Aviv, March 2019.

### **PROFESSIONAL SERVICE**

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**Guest editor and co-organizer:** Special issue on “Measuring and Meaning: Bridging Theory and Data in Cyber Conflict Studies,” *International Interactions*.

**Reviewer:** Journal of Cyber Policy; Journal of Global Security Studies; International Studies Perspectives; Texas National Security Review.

**Member:** International Studies Association (ISA); American Political Science Association (APSA); From Stuxnet to ISIS – Research Group on cyber conflicts in the Middle East, The Hebrew University, Jerusalem.

RUSI’s Global [Partnership](#) for Responsible Cyber Behaviour, London.

### **PROFESSIONAL EXPERIENCE**

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**Israel Security Agency, Israel** – senior cyber intelligence analyst 2008-2014

- Led the development of a comprehensive perspective for senior management.
- Head of training program for new employees.

## DIVERSITY AND INCLUSION

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**Co-founder and mentor:** Center for International Security and Cooperation (CISAC) mentoring program for women and under-represented minorities in national security fields (2022). Stanford University.

**Mentor:**

*Forum Devora*, Non-partisan, non-profit NGO promoting the equal representation of women in key decision-making positions in the fields of national security and foreign policy.

*Girl Security*, non-profit NGO, advancing the participation of girls and women in national security.

## POLICY ENGAGEMENT AND TRAINING

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**Bridging the Gap International Policy Summer Institute (IPSI)**

June 2022

American University, Washington DC

Led by Prof. James Goldgeier and Prof. Bruce Jentleson.

## SELECTED PUBLIC-FACING SCHOLARSHIP

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Baram, G. “The Pall Mall Process could be a catalyst for international collaboration on commercial cyber intrusion capabilities,” *The Binding Hook*, March 25, 2024.

<https://bindinghook.com/articles-hooked-on-trends/the-pall-mall-process-could-be-a-catalyst-for-international-collaboration-on-commercial-cyber-intrusion-capabilities/>

Baram, G. “Securing Taiwan’s Satellite Infrastructure Against China’s Reach,” *Lawfare*, November 14, 2023. <https://www.lawfaremedia.org/article/securing-taiwan-s-satellite-infrastructure-against-china-s-reach>

Franco, R. and Baram, G. “The financial effect of a cyber crisis: The neglected costs senior executives should take into account,” *C-Tech*, November 13, 2022.

<https://www.calcalistech.com/ctechnews/article/h1zyk00phj>

Baram, G. “How the cyberwar between Iran and Israel has intensified,” *The Monkey Cage blog*, The Washington Post. July 25, 2022.

<https://www.washingtonpost.com/politics/2022/07/25/iran-israel-cyber-war>

Baram, G. “Russo-Ukrainian War Highlights Cyber Threats to Satellite Communications,” *The National Interest*, April 12, 2022. <https://nationalinterest.org/blog/techland-when-great-power-competition-meets-digital-world/russo-ukrainian-war-highlights-cyber>

Baram, G. “Israel and Iran’s Cyberwar Is Increasingly Targeting Civilians,” *The National Interest*, March 16, 2022. <https://nationalinterest.org/blog/techland-when-great-power-competition-meets-digital-world/israel-and-iran%E2%80%99s-cyberwar>

Baram, G. "Germany's Cyber Politics: Why do Governments Reveal Cyber Intrusions," *Lawfare*, November 24, 2021. <https://www.lawfareblog.com/why-do-governments-reveal-cyber-intrusions>

Baram, G. "US Global Ransomware Summit: More Needs to be Done," *RSIS Commentary*, November 15, 2021. <https://www.rsis.edu.sg/rsis-publication/cens/us-global-ransomware-summit-more-needs-to-be-done/>

Baram, G. "Black Shadow & the Future of Cyberwarfare," Interview for the *Jerusalem Press Club*, October 31, 2021. <https://cisac.fsi.stanford.edu/news/black-shadow-future-cyberwarfare>

Baram, G. "Storm Winds – on the meaning of deterrence in cyber incidents," *Israeli Defense Forces Blog*. January 10, 2021 [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. 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. <https://www.foreignaffairs.com/articles/americas/2015-01-07/space-wars>

## **POLICY PUBLICATIONS**

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Barel, O., Wechesler, O and Baram, G., "Facial recognition in the public sphere - a comparative review of selected countries. Yuval Ne'eman Workshop for Science, Technology and Security, Tel Aviv University/Israeli National Cyber Directorate, July 2021. <https://bit.ly/3UORwJ4> [Hebrew].

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.

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](https://www.inss.org.il/wp-content/uploads/2020/04/Cyber4.1ENG_7-133-149.pdf)



Shapira, Z. and Baram, G., “The 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>

Google scholar citations – 5.

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 [Hebrew].

Cohen, D. and Baram, G., “The Use of Cyberwarfare in Military Influence Operations,” *Maa'rachot* (IDF journal), 480-481, 2018, pp. 64-69 [Hebrew].

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/wp-content/uploads/systemfiles/5\\_Menashri\\_Baram.pdf](https://www.inss.org.il/wp-content/uploads/systemfiles/5_Menashri_Baram.pdf)

Google scholar citations – 19.

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/wp-content/uploads/systemfiles/MASA5-1Eng4\\_Baram.pdf](https://www.inss.org.il/wp-content/uploads/systemfiles/MASA5-1Eng4_Baram.pdf)

Google scholar citations – 10.

Baram, G., “Preparing for Cyberwar,” *Maa'rachot* (IDF journal), vol. 456, August 2014, pp.22-27 [Hebrew].