

## Or Rappel-Kroyzer

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Github: <https://github.com/orrappelkroyzer?tab=repositories>

### **In brief**

I am a political historian and interdisciplinary data scholar. I currently complete my PhD in American History in Tel-Aviv University and work as chief scientist in the Center for Interdisciplinary Data Research at the Hebrew University.

Married to Orit, father to Alon (9), Ofer (8) and Shahar (5.5).

### **Education**

PhD Candidate, American History, Tel Aviv University, [2019 – Present]

- Dissertation Topic: "This tale happened once upon a time": The Californian narrative of the Civil War and its influence on America, 1865-2009
- Advisor: Prof. Yael Sternhell

MA, History, Tel Aviv University, Magna Cum Laude, 2019

- Thesis Title: The California Democratic Party on the Eve of the Civil War – Anatomy of Failure
- Advisor: Dr. Yael Sternhell

BA, Mathematics, Computer Science and Jewish Philosophy, Hebrew University of Jerusalem, Magna Cum Laude, 2005

BA, History, Open University, Magna Cum Laude, 2012

- Completed mostly during Junior high school, high school, and military service years.

### **Academic Positions / Projects**

Chief Scientist, Center for Interdisciplinary Data Research, Hebrew University, 2022-Present

Co-Founder, Civil Archive for the October 7th War, Tel-Aviv University (<https://october7archive.sites.tau.ac.il/en>), 2023-Present

Advisor, High School Bagrut Paper in History, Hartman High School, Jerusalem

### **Peer-reviewed Publications**

#### **Peer-reviewed Journal Articles**

1. O. Rappel-Kroyzer. "The UDC California Division Members Database: Using Spatial Analysis to Shed new Light on the Formation of Civil War Memory in California." *Proceedings of the 7th ACM SIGSPATIAL International Workshop on Geospatial Humanities*, 2023. DOI: <https://dl.acm.org/doi/abs/10.1145/3615887.3627753>  
181/1193 (Top-15%) Q1 in Computer Science Conferences  
IF=2.9

2. U. Sommer, O. Rappel-Kroyzer. "Geographical Analysis of Political Epidemiology: Spatial Quantification of Simultaneity between Politics and Pandemics." *Political Geography*, 2023. DOI: <https://doi.org/10.1016/j.polgeo.2023.102939>  
25/188 Q1 (Top-13%) in Political Science  
16/87 Q1 (Top-16%) in Geography  
IF=4.1 5YIF=4.1
3. A. Yoskovich, O. Rappel-Kroyzer, Y. Marmor, S. Levi, and E. Ben-Eliyahu, "ALMA Digital Atlas of the Ancient Jewish World: An Introductory Essay", *Jerusalem Journal of Archeology*, 2023. <https://jjar.huji.ac.il/publications/alma-digital-atlas-ancient-jewish-world-introductory-essay>
4. U. Sommer, O. Rappel-Kroyzer, A. Adamczyk, L. Lerner and A. Weiner. "The Political Ramifications of Judicial Institutions: Establishing a Link between Dobbs and Gender Disparities in the 2022 Midterms". *Socius: Sociological Research for a Dynamic World*, 2023. DOI: <https://doi.org/10.1177/23780231231177157>  
13/214 (Top-6%) in Sociology  
IF=4.5
5. U. Sommer and O. Rappel-Kroyzer "Pandemic Politics in the USA." *Political Psychology* 2022. DOI: [10.1111/pops.12792](https://doi.org/10.1111/pops.12792)  
22/183 Q1 in Political Science  
13/65 Q1 in Psychology, Social  
IF=4.333 5YIF=5.477
6. U. Sommer and O. Rappel-Kroyzer "Media Coverage in Democracies during the Outbreak of COVID-19". 2022. *Information Technology and Politics* 19(4). DOI: [10.1080/19331681.2021.1997869](https://doi.org/10.1080/19331681.2021.1997869)  
58/188 Q2 in Political Science  
44/95 Q2 in Communication  
IF=2.719 5YIF=3.443

## Conference presentations

### 2024

DH2024, "Clan or Commune? A Socio-Historical Computational Analysis of Family Ties in Communal Living" (with Yanir Marmor)

American Political Science Association Annual Meeting, "Congressional Responsiveness to the Jewish Voter – Evidence from the Recent Israel-Gaza War." (with Noah Slepko)

Israeli Data Science and AI Initiative Annual Conference, "Ballpark Learning: AI Framework to Assess Political Persuasion and Polarization" (with Udi Sommer and Dafna Shahaf)

### 2023

American Political Science Association Annual Meeting, "Ballpark Learning: AI Framework to Assess Political Persuasion and Polarization" (with Udi Sommer and Dafna Shahaf) <https://apsa2023-apsa.ipostersessions.com/Default.aspx?s=A3-8E-B1-A4-44-B5-FC-45-C7-BC-A0-97-95-F6-A0-62>

Graphs and Networks in the fourth dimension - time and temporality as categories of connectedness; Joint conference of the HNR community and Graphs & Networks in the Humanities, "Halakhic Creativity of Sephardic Rabbis Educated in Israel after 1948: A Network Analysis" (with Zvi Zohar and Yanir Marmor)

Research Debuts in Jewish Studies, the Hebrew University, "The geography of the world - the mental maps reflected in Bible translations of the 'Table of Nations' (with Avraham Yoskovitch and Yanir Marmor)

## 2022

American Political Science Association Annual Meeting, "The Cumulative Impact of Elections on Affective Polarization" (with Udi Sommer, online)

Societa Italiana de Sienza Politica, "The Socio-political Nature of the Gender Gap in COVID-19 Vaccinations: An Ecological Analysis" (with Udi Sommer)

The 18th World Congress of Jewish Studies, "Computational Analysis of the Halachic Literature created by Sepharadi Rabbis in Israel, 1967-2020" (with Zvi Zohar and Yanir Marmor)

Midwest Political Science Association, "Deus Ex Machina: How COVID-19 Changed Mass Political Behavior from Lockdowns to Elections and Vaccines" (with Udi Sommer, online)

Broadening Our Approach: A Workshop on Comparative Political Communication, DeWitt Wallace Center for Media and Democracy, Duke University's Sanford School of Public Policy, "A Paradigm Shift in the Understanding of Political Campaigns Based on NLP Tools" (with Udi Sommer)

## 2021

American Political Science Association Annual Meeting, "Quantifying Polarization at Sub-State Levels: A Methodological and Substantive Framework using Election Outcome Shift (EOS)" (with Udi Sommer, online)

## **Patents**

1. Rabani, M; Ben-Hamo, M. Schwartz, M; Rosenberg-Biton, E; Shay, Y; Rappel-Kroyzer, O. *Systems and Methods for Monitoring Lane Mark Quality*. WO2022149046A1. Published July 14, 2022.
2. Bolless, E; Karavany, I; Neuhof, B; Rappel-Kroyzer, O; Shpigelman, S; Ben-Ami, H; Aviad, E, *Systems and Methods for Determining Road Safety*, WO 2021096935A2, published Jul 28, 2022
3. Rappel-Kroyzer, O; Raphael, A; Karavany, I; Kom, S; Chanovsky, A; Avidan, E and Bolless, E, *Clustering Event Information for Vehicle Navigation*. WO 2020154599. Published Jul 30, 2020.

## **Scholarships, Honors and Awards**

Support Grant for the Civil Archive for the October 7<sup>th</sup> War, Dan David Foundation, 2024

PhD Grant, Tel-Aviv University School of History, 2023

PhD Grant, Tel-Aviv University Center for Combatting Pandemics, 2022

Excellence Grant, Tel-Aviv University Center for Study of the United States, 2018, 2019, 2020

Amirim Honors Program, Hebrew University's Faculty of Science', 2002-2005 (Full tuition; the most selective program in the Hebrew University)

Rector Prize (top 1%), Hebrew University, 2003

Dean's list (top 5%), Hebrew University, Faculty of Science, 2002

President Honors List (top 1%), Open University, 2002 (top 1%)

Dean's Honors List (top 5%), Open University, Faculty of Humanities and Social Science, 2001

## **Invited Talks**

6/2024: Data Scraping in Archival Work, "Archives and civil documentation during the current war" MA Seminar, Culture Studies program, Tel-Aviv University

6/2024: Git Workshop, Hebrew University Digital Humanities Center Seminar

5/2024: Distant Reading in Historic Newspapers: The Disappearance of Californian Civil War Protagonists, Hebrew University Digital Humanities Center Seminar

3/2023: GIS Workshop, Digital Humanities Winter School, Hebrew University Digital Humanities Center

### **Industry Employment**

Mobileye, 2017-2022

- Software Engineer, REM mapping group, 2021-2022
- Technology Lead, Geographic Dynamic data analysis and GIS, 2017-2021

ICS<sup>2</sup> (Startup in the field of cyber-security and operation optimization for industrial systems), 2015-2017

- Head of R&D, 2016-2017
- Head of optimization, 2015-2016

BrightSource Industries, Israel (subsidiary of BrightSource Energy, Builder, Planner and operator of large-scale solar thermal power plants), 2011-2017

- Sr. Director, Solar Field Layout, 2015-2017
- Sr. Director, Power Generation Modeling, Solar field modeling and SPOC, 2013-2015
- Sr. Manager, Power Generation Modeling, 2011-2013

AlgoSec (startup in the field of firewall management), 2010-2011

- Manager, Infrastructure team

BHive Networks (startup in the field of web application monitoring; acquired by VMWare on 2009), 2006-2010

- Manager at vSphere iOPs development team, 2009-2010
- Manager, Mapping group, AppSpeed product, 2009
- Team Leader, AppRehend team, 2007-2008
- Software engineer, 2006-2007

Kashya (startup in the field of continuous storage replication; acquired by EMC on 2006), 2005-2006

- Software engineer