Name: Abigail Paradise Vit **Date:** 1/12/2025

CURRICULUM VITAE

1. Personal Details

Name: Abigail Paradise Vit
Permanent Home Address: Hadas 24, Shaked
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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
2015-2020	Department of Software and Information Systems Engineering, Ben-Gurion University of the Negev	Ph.D.	2020
2014-2015	Department of Software and Information Systems Engineering, Ben-Gurion University of the Negev	M.Sc. (with honors)	2016
2009-2013	Department of Software and Information Systems Engineering, Ben-Gurion University of the Negev	B.Sc. (with honors)	2013

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2021-Present	The Max Stern Yezreel Valley College, Information systems	Lecturer
2013-2020	Department of Software and Information Systems Engineering, Ben-Gurion University of the Negev	Teaching Assistant

4. Offices in Academic Administration

2023 – Present Member of the Exceptions Committee - The Max Stern Yezreel Valley College

2022 – Present Member of the Committee for Recognition of Prior Studies- The Max Stern Yezreel Valley College

2022 – 2024 Departmental Seminar Coordinator - The Max Stern Yezreel Valley College

2022 – 2023 Member of the Appeals Committee for the College's Scholarship Committee - The Max Stern Yezreel Valley College

2021 – Present Member of the Teaching Committee - The Max Stern Yezreel Valley College

2021 –2022 Member of the Computing Committee - The Max Stern Yezreel Valley College

2021 – 2022 Member of the Exceptions Committee - The Max Stern Yezreel Valley College

5. Scholarly Positions and Activities outside the Institution

a. Reviewing for Refereed Journals

2024 - Present Reviewer at Journal of Infrastructure, Policy and Development

2022 - Present Reviewer at Journal of Medical Internet Research (JMIR)

2021 - Present Reviewer at IEEE transaction on computational social system

b. Reviewing for Funding Agencies

2025 - Reviewer at "The Israel national institute for health policy research"

6. Participation in Scholarly Conferences

a. **Active Participation**

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
2023	9The World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'23)	London (non-virtual conference)	Automatic Detection of Honey in Hive Frames using Deep Learning	Oral Presentation
2018	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) **acceptance rate=21%**	Barcelona, Spain (non-virtual conference)	ProfileGen: Generation of Automatic and Realistic Artificial Profiles	Poster Presentation
2015	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) **acceptance rate=16.9%**	Paris, France (non-virtual conference)	Two studies were accepted: 1. Leak sinks: The threat of targeted social eavesdropping 2. Hunting Organization-Targeted Socialbots	Oral Presentation

7. Research Grants

a. Grants Awarded

Role in Research	Co-Researchers	Title	Funded by (C=Competitive Fund)	Amount	Years
Co-PI	Avi Magid (PI)	Analyzing and predicting the public's reactions to messages from health organizations using machine learning	The College Research Authority	15,000	2024
PI		Identifying trends related to glacier retreat using advanced deep learning techniques	The College Research Authority	15,000	2023

b. Submission of Research Proposals – Pending

Role in Research	Co-Researchers	Title	Funded by	Year
PI	Dr. Arie Feldman	Using Artificial Intelligence for Early Identification of Patients at Risk for Life-Threatening Upper Gastrointestinal Bleeding in Combat Situations	The Israel national institute for health policy research (C)	2025

c. Submission of Research Proposals – Not Funded (In the Last 5 Years)

Role in Research	Co-Researchers	Title	Funded by (C=Competitive Fund)	Year	Score
PI	Dr. Danieal Amital	Utilizing AI tools to detect child abuse and neglect	The Israel national institute for health policy research (C)	2024	No score

8. Scholarships, Awards and Prizes

2025	YVC reward for academic excellence
2024	YVC reward for academic excellence
2018, 2019	Received "Glatt award" (for excellence in teaching), Ben-Gurion University of the Negev.
2014-2018	"Excellent teaching" award, Ben-Gurion University of the Negev.
2015	'Negev scholarship', Ben-Gurion University of the Negev.
2014-2015	"Excellent in research" award, Ben-Gurion University of the Negev.
2014	"Dean's Award", Ben-Gurion University of the Negev.
2013	"Rector award", Ben-Gurion University of the Negev.

9. Teaching

a. Courses Taught in Recent Years

Year	Name of Course	Type of Course Lecture/Seminar/Workshop/High Learn Course/ Introduction Course (Mandatory)	Degree	Number of Students
2024	Data Collection	Lecture	undergraduate	~60

2021-Present	Information Retrieval	Lecture	undergraduate	~30
2021-Present	Introduction to databases	Lecture	undergraduate	~100
2021-Present	Data Structures and Algorithms b	Lecture	undergraduate	~90
2021-2023	Social network analysis	Lecture	undergraduate	~30
2013 - 2020	Information Retrieval	Teaching assistant	undergraduate	~90
2013 - 2019	Introduction to Probability and Statistics	Teaching assistant	undergraduate	~90

b. <u>Supervision of Graduate Students</u>

Name of Student	**Title of Thesis**	**Degree**	**Date of Completion /in Progress**	**Students' Achievements**
Ori Fugel	Utilizing AI tools to detect child abuse and neglect	B.A honors program	In progress	
Avivit Lifshitz	Detection of antisemitism in social media content	B.A honors program	In progress	
Rafael Ben Menashe	Author profiling in content	B.A honors program	In progress	

Linoy Saida	Automatic identification of prison recidivism	B.A honors program	1.9.24	
Yarden Aronson	Automatic Detection of Honey in Hive Frames using Deep Learning	B.A honors program	1.9.23	The work was accepted as a paper to The World Congress on Electrical Engineering and Computer Systems and Sciences

10. Professional Experience

6/2012 – 2020

Title: Researcher and data scientist
Institution: Deutsche Telekom Laboratories

Projects:

Detecting APT attacks using advanced social network (4/2013-12/2020) - presented a method for detecting reconnaissance activity on an organization's social network performed by an attacker using honeypot profiles.
- Research, design, implement and monitor processes as part of a research project on social networks.
- Analyzing data collected from social media and websites.
- Feature extraction from social networks.
- Applying Machine-Learning algorithms on social networks-based domains.
- Design and development of algorithms for harvest leaked information in social networks using socialbots.
- Design and development of algorithms for monitoring and attacking strategies in social networks using socialbots.

Influence in social media (5/2019 -9/2020) - examined the engagement of OSN users to created profiles.
- Creation of Facebook and Twitter crawler and datasets.
- Experimental design and measures of the engagement of OSN users.
- Creation of an automated component for posting posts and likes on Facebook and Twitter.
- Developing and implementing an algorithm for finding the most influencer's users in a social media group.
- Experience with libraries of social network API.

Manipulating content display in online social media (5/2019 -9/2020) – proposed the chameleon attack technique, a new type of OSN-based trickery where malicious posts and profiles change the way they are displayed to OSN users to conceal themselves before the attack or avoid detection on Facebook, Twitter, and LinkedIn.
- Using Facebook and Twitter API.
- Creation of Facebook and Twitter datasets.
- Experiment planning and execution.

DNS project (10/2017-2/2018) – proposed a method to identify various attacks in DNS data.
- Using machine learning and deep learning to recognize attacks.
- Experience with libraries of machine learning and deep learning.

Secaware (10/2015-10/2016) - this research deals with analyzing the behavior of a user and automatically assigning a security awareness score to the user. This score indicates how vulnerable the user is to various cyber-attacks.
- Conducting qualitative research for learning about the security awareness of smartphone users.
- Using machine learning to find vulnerable users.
- Analysis of experts results in a qualitative survey.
- Experience with libraries of machine learning.

TM-Score (06/2012-03/2013) - In this research a new measure is proposed, the Misuseability Score (TM-Score) for textual data. Using this measure, the organization can estimate the extent of damage that can be caused by an insider that is continuously and gradually exposed to textual content (e.g., documents and emails).
- Develop a prototype system for monitoring exposure to sensitive information.
- Implementation and Analyses of two approaches for estimating the level of similarity among documents: fingerprints and cosine similarity.
- Experience with C# / .NET / Python.

11. Non-Academic Community Service (Volunteer Activities, pro-bono)

2024-current I volunteer in my local community, helping a high school student with her computer science studies, specifically in Python programming.

2022- Creating educational videos on information systems for the ministry of education, specifically tailored for high school students specializing in data analysis.

PUBLICATIONS

Authors' relative contributions are according to the order of names unless otherwise indicated.

A. Ph.D. Dissertation

Protecting Organizations from Cyber Attacks Originating from Social Media, 2020, 102 pp, English, Ben-Gurion University of the Negev, supervision of Prof. Asaf Shabtai and Dr. Rami Puzis.

B. Articles in Refereed Journals

H-index: Web of Science = 3; Google Scholar = 6

Citations: Web of Science (without self-citations) = 82; Google Scholar = 185

Journal ranking (Q) of each manuscript were taken from Web of Science Clarivate JCR Database (https://jcr.clarivate.com/jcr/home?Init=Yes&SrcApp=IC2LS). Impact Factor of each manuscript was taken from Web of Science Clarivate JCR Database (https://jcr.clarivate.com/jcr/home?Init=Yes&SrcApp=IC2LS). The number of citations of each manuscript was taken from Google Scholar.

Published

1. **Paradise Vit, A.,** Fraidin, D, Ovadia, Y. S., (2025) Still in Grief: Exploring Stillbirth Discourse on Instagram and X. 23 pp. JMIR
(IF= 2.3, JCR = 83/188 in Health Care Sciences & Services, Q2)
DOI: 10.2196/73980
Role in the publication: I led the research and was involved in all stages of the research process, leading the conceptualization of the study, the development of the research design and methodology, as well as overseeing data curation and resource management. Additionally, I contributed to the development of the software, conducted formal analyses, data visualization, and the preparation of the manuscript. I also guided and mentored the student in executing the code, ensuring the accuracy and efficiency of the computational processes.

2. **Paradise Vit, A**., & Puzis, R. (2025). The Use of Trigger Warnings on Social Media: A Text Analysis Study of X. *PLOS ONE*. 23 pp.
(IF= 2.9, JCR = 32 / 134 in Multidisciplinary Sciences, Q1)
DOI: https://doi.org/10.1371/journal.pone.0322549
Role in the publication: I led the research, I was involved in all stages of the research process, leading the conceptualization of the study, the development of the research design and methodology, as well as overseeing data curation and resource management. Additionally, I contributed to the development of the software, conducted formal analyses, data visualization and the preparation of the manuscript.

*3. **Paradise Vit, A.,** & Magid, A. (2025). Exploring Topics, Emotions, and Sentiments in Health Organization Posts and Public Responses on Instagram: Content Analysis. JMIR Infodemiology. 32 pp.
DOI: 10.2196/70576

(IF= 2.3, JCR = 83/188 in Health Care Sciences & Services, Q2)
Role in the publication: I was involved in all stages of the research process, leading the team of students, conceptualization of the study, the development of the research design and methodology and the preparation of the manuscript.

*4. Elyashar, A#., **Paradise Vit, A#.**, Sebbag, G., Khaytin, A., & Zakai, A. (2025). Automated Gluten Detection in Bread Images Using Convolutional Neural Networks. *Applied Sciences*, *15*(4), 1737.
DOI: https://doi.org/10.3390/app15041737
(#,Equal contribution)
(5-YR IF=2.7, IF= 2.5, JCR= 44 / 181 in engineering, multidisciplinary, Q1, 3 citation)
Role in the publication: I was involved in all stages of the research process, leading the team of students, conceptualization of the study, the development of the research design and methodology and the preparation of the manuscript.

*5. **Paradise Vit, A.**, Aronson, Y., Fraidenberg, R., & Puzis, R. (2024). Visual Censorship: A Deep Learning-Based Approach to Preventing the Leakage of Confidential Content in Images. *Applied Sciences*, *14*(17), 7915.
DOI: https://doi.org/10.3390/app14177915
(5-YR IF=2.7, IF= 2.5, JCR= 44 / 181 in engineering, multidisciplinary, Q1, 1 citation)
Role in the publication: I was involved in all stages of the research process, leading the team of students, conceptualization of the study, the development of the research design and methodology and the preparation of the manuscript.

*6. **Paradise-Vit, A#.,** Elyashar, A#., & Aronson, Y. (2024). Automated photo filtering for tourism domain using deep and active learning: the case of Israeli and worldwide cities on Instagram. Information Technology & Tourism, 1-30.
DOI: https://doi.org/10.1007/s40558-024-00295-y
(#,Equal contribution)
(5-YR IF=6.9, IF=6.3, JCR= 16 / 140 in hospitality, leisure, sport & tourism, Q1, 1 citation)
Role in the publication: I was involved in every aspect of the research, from shaping the initial concept and designing the study, to planning the methods and managing the data and resources. I also contributed to building the software, performed the formal analysis, and helped visualize the data. Additionally, I played an important part in writing and refining the final manuscript.

*7. **Paradise Vit, A.**, & Magid, A. (2024). Differences in Fear and Negativity Levels Between Formal and Informal Health-Related Websites: Analysis of Sentiments and Emotions. *Journal of Medical Internet Research*, *26*, e55151.
DOI: 10.2196/55151
(5-YR IF=6.7, IF=5.8 , JCR= 10 / 174 in health care sciences & services, Q1 and 5/44 in medical informatics, Q1, 3 citations)
Role in the publication: I led the conceptualization (equal), software (lead), methodology (equal), data curation (lead), formal analysis (lead), visualization (lead), and writing (equal).

8. **Paradise, A.,** Shabtai, A., & Puzis, R. Detecting Organization-Targeted Socialbots by Monitoring Social Network Profiles. 2018. *Networks and Spatial Economics*, 1-31
DOI: https://doi.org/10.1007/s11067-018-9406-1

(5-YR= IF=2.1, IF= 2.084, JCR = 57 / 189 in Computer Science Subcategory, Artificial Intelligence and 64 / 274 in Computer Science Subcategory, Computer Networks and Communications, Q1, 7 citations)
Role in the publication: I led the research, I was involved in all stages of the research process, leading the conceptualization of the study, the development of the research design and methodology, as well as overseeing data curation and resource management. Additionally, I contributed to the development of the software, conducted formal analyses, data visualization and the preparation of the manuscript.

9. **Paradise, A.**, Puzis, R., Shabtai, A., Elyashar, A., Elovici, Y., Roshandel, M., Peylo, C. Creation and Management of Social Network Honeypots for Detecting Targeted Cyber Attacks. 2017. IEEE Transactions on Computational Social Systems. 4(3), 65-79
DOI: 10.1109/TCSS.2017.2719705
(5-YR IF=4.6, JCR = 6/32 in computer science, cybernetics, Q1, 51/250 in computer science, information systems, Q1, 75 citations)
Role in the publication: I was involved in all stages of the research process, leading the conceptualization of the study, the development of the research design and methodology, as well as overseeing data curation and resource management. Additionally, I contributed to the development of the software, conducted formal analyses, data visualization and the preparation of the manuscript.

10. **Paradise, A.**, Puzis, R., Shabtai, A. Anti-Reconnaissance Tools: Detecting Targeted Socialbots. 2014. IEEE Internet Computing, 18(5), 1-19.
DOI: 10.1109/MIC.2014.81
(5-YR IF= 3.1, IF= 3.7, JCR = 29 / 132 in computer science, software engineering, Q1, 49 citations)
Role in the publication: I was involved in all stages of the research process, leading the conceptualization of the study, the development of the research design and methodology, as well as overseeing data curation and resource management. Additionally, I contributed to the development of the software, conducted formal analyses, and played a key role in data visualization and the preparation of the manuscript.

C. Articles in Conference Proceedings

Published

*1. **Paradise, A.,** & Aronson, Y. Automatic Detection of Honey in Hive Frames using Deep Learning. In *Proceedings of the the 9 th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'23)* Brunel University, London, United Kingdom - August 03-05, 2023.
DOI: 10.11159/mvml23.120

2. Elyashar, A., Uziel, S., **Paradise, A.,** & Puzis, R. (2020, April). The Chameleon Attack: Manipulating Content Display in Online Social Media. *In Proceedings of The Web Conference 2020* (pp. 848-859).
(8 citation, A* conference, acceptance rate=19.4%)
DOI: https://doi.org/10.1145/3366423.3380165

3. **Paradise, A.,** Cohen, D., Shabtai, A., & Puzis, R. 2018. ProfileGen: Generation of Automatic and Realistic Artificial Profiles. *In 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* (pp. 581-583). IEEE.
(2 citation, acceptance rate=21%)
DOI: 10.1109/ASONAM.2018.8508242

4. Bokobza, Y., **Paradise, A.,** Rapaport, G., Puzis, R., Shapira, B., & Shabtai, A. 2015. Leak sinks: The threat of targeted social eavesdropping. In *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2015* (pp. 375-382).
(6 citations, acceptance rate=16.9%)
DOI: https://doi.org/10.1145/2808797.2808891

5. **Paradise, A.,** Shabtai, A., Puzis, R. 2015. Hunting Organization-Targeted Socialbots, In *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2015* (pp. 537-540).
(17 citations, acceptance rate=16.9%)
DOI: https://doi.org/10.1145/2808797.2809396

D. Articles or Chapters in Scientific Books (which are not Conference Proceedings)

Published

1. **Paradise, A.,** Puzis, R., Shabtai, A. 2016 Socialbots, *Encyclopedia of Social Network Analysis & Mining (ESNAM)*, Springer, (2016).

E. Submitted Publications

Articles in Refereed Journals

*1. Ovadia, Y. S., Bilenko, N., Gefel, D., Mazza, O., Fisch-Shvalb, N., Rosen, S. R., Avrahami-Benyounes, Y., Groisman, L., Rorman, E., **Paradise Vit, A.**, Ketslakh, T., Anteby, E. Y., Shenhav, S. (2025). A prediction model for childhood obesity risk based on maternal thyroid status and related parameters using machine learning: a mother-newborn-offspring study in the mild-to-moderate iodine deficiency area. International Journal of Obesity. 30 pp. **Revise and Resubmit**
(5-YR IF=4.5, IF= 4.2, JCR = 27 / 114 in Nutrition & Dietetics and 40 / 186 in Endocrinology & Metabolism, Q1)
Role in the publication: I was responsible for the data science aspect of the research, including the planning and execution of experiments, running the experiments, writing the code, analyzing the results, and contributing to the writing of the manuscript.

F. Summary of my Activities and Future Plans

I am a researcher and an academic specializing in data science and artificial intelligence, with a strong focus on large-scale data analysis across diverse domains. My recent research

explores the application of AI-driven tools in various fields, including agriculture, healthcare, communications, environmental science, cybersecurity, and tourism.

My expertise lies in data processing, machine learning, and advanced deep learning techniques, with a particular emphasis on complex network analysis and natural language processing (NLP) for text analysis.

I am actively engaged in several research projects at the intersection of AI, social media analysis, and public health. My ongoing work includes:

- **Automated detection of prison recidivism** – Collaborating with prison services to develop AI-driven solutions for identifying patterns of reoffending.
- **Profiling and automatic identification of vaccine opponents on social networks** – Using machine learning to analyze and categorize vaccine opposition online.
- **Detection of misinformation in medical-related content on social media** – Developing algorithms to identify and combat false or misleading health information.
- **Emotion analysis in medical content** – Focusing on detecting fear in medical-related discussions on social media.
- **Public discourse on stillbirths in online platforms** – Investigating societal conversations and sentiment around stillbirths using AI-based textual analysis.
- **AI-powered identification of gluten-containing foods** – Enhancing food labeling accuracy with machine learning techniques.
- **AI-based detection of pelvic masses in women–** Developing computer-vision models on ultrasound/MRI to support early identification and triage.
- **Global Twitter trends in vaccine opposition** – Analyzing shifts in sentiment and narratives before/after Trump's presidency and the U.S. withdrawal from the WHO using time-series and causal inference.
- **Crowd-sourced glacier retreat detection** – Using computer vision on public and citizen-science photos to quantify glacier change over time.