

CV- Heftsi Ragonas

Personal Information:

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Academic and Professional Experience:

2020-today: Faculty Member, School of Engineering & Digital Medical Technologies
Holon Institute of Technology HIT.

2022: Visiting Researcher, School of Chemistry Tel Aviv University

2021 : Research Associate, School of Chemistry Tel Aviv University.

2018-2020: Post-Doctoral Research Associate, School of Chemistry Tel Aviv University.

2015-2017: Lecturer and lab supervisor at Azrieli – College of Engineering, Department of Pharmaceutical Engineering.

2014-2017: Lecturer – Wolfson Nursing School

2010-2014: Design and fabrication novel 3D flexible sensors, electrochemical characterization, data processing methods, improving sensitivity and selectivity.

2011- 2013: Research Assistant in a European "Heart-e-Gel" consortium developing biomedical microsystem solutions, based on Electro-Active Hydrogels , for the treatment of cardiovascular diseases.

2010-2011: Research Assistant developing oxygen sensor on a flexible substrate.

Education:

2010-2015: Ph.D. in Electrical Engineering, Tel Aviv University. Thesis subject: Novel 3D Electrochemical Sensor for Cell and Tissue Diagnosis. Advisor: Prof. Yosi Shacham-Diamand.

2007-2009: M.Sc. in Biotechnology, Graduated cum laude. Department of Molecular Microbiology and Biotechnology, Tel Aviv University. Thesis subject: The Effect of Sub-Clinical Mastitis on Cheese Quality - a Peptide-Based Analysis. Advisors: Prof. Gideon Fleminger and Dr. Gabriel Leitner.

2002-2005: B.Tech in Chemical and Biotechnology Engineering, Graduated cum laude Department of Chemical Engineering and Biotechnology, Ariel University Center of Samaria. Final projects: 1. Enzymatic Synthesis and Separation of Unnatural Amino-Acids. Advisor: Prof. Shimon Shatzmiller. 2. Factory Planning for Production of Biodiesel.

Research Grants:

2022-2025: Ministry of Energy, Israel “Novel All-Extruded Bipolar Battery for EV Applications”, TAU & HIT.

2021- 2024: Israel Binational Science Foundation (BSF) “On the road to a flexible multi-coaxial-cable 3D printed battery”, TAU, HIT & Hunter College, USA.

Conferences:

1. PRiME 2020 – Pacific Rim Meeting on Electrochemical and Solid State Science (ECS, ECSJ & KECS Joint Meeting), 3D-printed energy storage devices [online].
2. The 85th Annual Meeting of the Israel Chemical Society, 2020, Jerusalem, Israel, Functional 3D printed materials for electrochemical energy storage.

3. Israel Electrochemistry Meeting, 2019, Ben Gurion University of the Negev, Beer Sheva, Israel, 3D-printed functional materials for electrochemical energy storage. *Best Oral Presentation*.
4. International Winter School 2019 on NanoMaterials for Energy Storage and Conversion, Tel Aviv University, Tel-Aviv, Israel. Novel 3D-printed functional materials for electrochemical energy storage
5. EMRS 2018, A Novel Fabrication & Characterization of 3D-Printed Battery, Poland
6. The 19th International Meeting on Lithium Batteries (IMLB 2018), Kyoto, Japan
7. The 18th Israel Materials Engineering Conference (IMEC 18), Dead Sea, Israel, 3D-printed functional materials for electrochemical energy storage.
8. EMNT 2014, 10th International Symposium on Electrochemical Micro & Nanosystem Technologies. Novel 3D Disposable Electrochemical Sensor for Cell and Tissue Diagnostics. Okinawa, Japan.
9. Bioelectrochemical Society 2013, Novel 3D Integration Technology for Whole Cell Bio Electrochemical Sensor Bochum, Germany.
10. Israelectrochemistry 2013 Novel 3D-Electrochemical Sensor for Monitoring of Cellular Metabolic Activity – Oral presentation Bar-Ilan University, Israel.
11. Israelectrochemistry 2011 Novel 3D electrochemical sensor. Hebrew University of Jerusalem, Israel.

June 2009 Tel-Aviv University Engineering Department Excellence Award for high achievements and contribution to research.

May 2009 Salim and Rachel Banin Excellence Award for postgraduate students.

2006 Ariel University Center of Samaria research scholarship for excellent students.

Languages: Hebrew – mother tongue, English at a very high level

Military service:

2005-2007: Servicing in the headquarters of the Israeli medical corps. Engineer at the division of environmental health.