



Hema Peswani

## Our Faculty



### Our Vice Dean Dr. Yael Parag's Research Proposal on Energy Security Services for Israel

Energy security is a complex, multi-faceted concept, with many definitions and metrics – all of which have undergone changes in recent years due to global geopolitical changes, stringent climate policies and the penetration of renewable and distributed energy.

These changes pose new challenges for the main four components of energy security: availability, reliability, affordability and sustainability.

The research aims to propose a coherent conceptual framework for formulating strategic thinking on Israel's energy security.

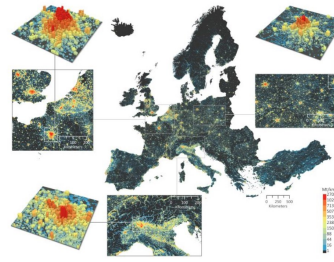
It will identify various threats to the energy system: external and internal, predicted and unpredicted, in the short and long term, and from various arenas – technological, social, financial and others.

The study will focus on several scenarios for the Israeli energy market under different conditions and constraints, identify threats coming from various arenas, offer metrics and indicators for assessing different components of energy security, and propose a methodology for assessing economic benefits from energy security.

Ultimately, the study will propose policy path to deal with various threats to Israel's

## Mapping European Cities Differently: Dr. Tomer Fishman & Yoav Peled's Innovative Research

"Our new study maps the weight of Europe's cities in a new combination of town/district-level resolution with continent-wide scope covering 47 countries: <https://lnkd.in/d6ccASG>



These results - the first such estimates for most European countries – map the continent's urban mines in high detail and reveal multi-level spatial patterns of material stock densities, enabling novel comparisons between and within the socioeconomic metabolism of regions and countries.

Thanks to Yoav Peled's methodological developments, we overcome past hurdles to consistently translate remotely-sensed nighttime lights into estimations of built-up volume and construction material stocks, partially by identifying and clustering areas with similar light-to-building ratio patterns".

The full GIS data is available in our open repository: <https://lnkd.in/dZfqts5>

[Link to the Academic Article](#)

## Main Event

### Life on Mars...

Unlike the great space explorations of the past, future missions to Mars will be international endeavors, likely led by private enterprises.

In collaboration with the Zvi Meitar Institute, we organized an outstanding zoom conference on the Ethical, Legal and Operational Challenges of Future Mars Settlements.



Among the various fascinating issues raised, our students were given the chance to present their "wheat germination" experiment to further discuss the possibility of growing crops on Mars.

[Click to watch on FB live](#)

## Study Tour

### TOURING THE GALAXY

As part of our dean's introductory course on Planet Earth's Systems, our first year students went on a study tour...at the Givatayim Observatory!!!

On the planetary tour coordinated with the Director of the Observatory Dr. Diana Laufer, we "visited" Mars, Jupiter and Saturn.

To understand how Planet Earth functions, it is important to know its

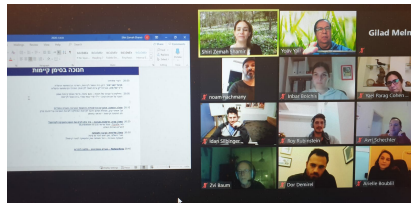
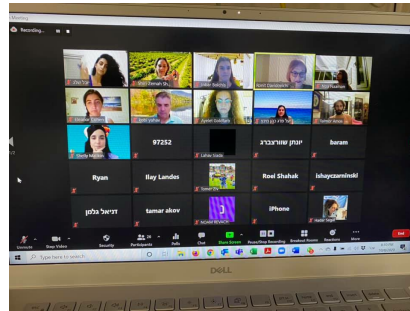


## Holiday Connections

### VIRTUAL SUKKAH

The Sustainability School is known for being a caring family.

To help our new students start their first academic year, our faculty members, lecturers, alumni and students, came together in our Vice Dean Dr. Yael Parag's "Virtual Sukkah" to share precious information, valuable tips and provide them with all the guidance necessary to succeed.



### HANUKKAH NETWORKING

To adapt our festivals to Covid19's reality, we've decided to light the candles of Hanukkah...virtually!

As a way to celebrate, we organized a networking event to connect our students with our graduates working in the Sustainability field and provided everyone with professional guidance from highly experienced mentors.

## Our students

### BEST CAPSTONE PROJECT

During their third years, our students have to work on their Capstone Project with the guidance of the Sustainability School staff members and the relevant organizations we are connected to. We are proud to present the Best Capstone Project of our students Abigail Friedmann, Gitit Chromoy and Adam Keeso.



Seas the day!

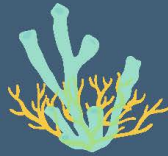
# SANDY MARINA

Based on CBA Sandy Marina, proposes Solutions for Herzliya Marina to address Sustainability issues.



Mechanical sand pump dredging beneficial sand for future beach nourishment projects and is an immediate solution against restricted boat access-channel.

EXTREME WEATHER AND HUMAN ACTIVITIES HAVE BEEN GRAVELY AFFECTING OUR ENVIRONMENT. FROM COASTLINE EROSION TO SAND BUILT UP IN SAILING CANALS, IT IS OUR SAFETY, ECONOMY & ENVIRONMENT THAT IS BEING THREATENED.



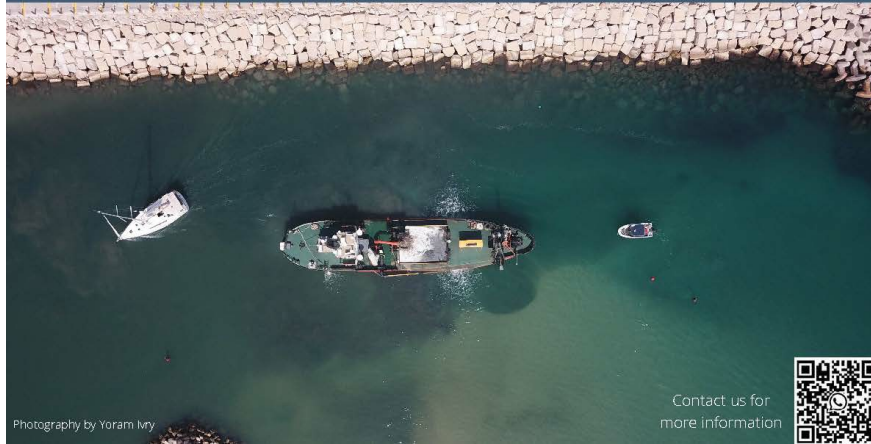
EConcrete is a mixture beneficial to marine life, it can be customized and coupled with any chosen solution.



Mangroves & Bamboo protect the coastline, increases biodiversity habitats and can isolate carbon.



Costal Bypass maintains an open Marina ensuring boat access, sand nourishment to beaches and is harmless to the environment.



Photography by Yoram Iry

Contact us for more information



## Our Alumni

### CLEANING RIVERS DURING LOCKDOWNS

We have no words to express our pride seeing our alumnus Rea Sofer's CNN interview about the initiative of cleaning Israel's rivers during the lockdowns.

Turning a liability into an asset to make our world a better place is what leadership is all about!

[Watch the CNN Interview](#)





## Meet Our Alumnus: Benjamin Hofmann

"I am the co-founder of EcoMingling, an organization in the Sustainability sector in Israel. We are trying to combine different stakeholders from different backgrounds to lead them to sustainable change. We are currently working with the major NGOs in Israel around the issue of plastic.

I took part in GreenBiz, MUN, IDCCChina, Dare, DareX and more.

I highly recommend every IDC student to join the clubs on campus and try to learn every day in order to get the full experience at IDC.

Throughout this journey, I got accepted to the unique Entrepreneurship Program called "UPStart", which helped me develop the skills that I am currently using in my everyday life.

Looking forward to connecting with all of you soon!

You can find me on LinkedIn: <https://www.linkedin.com/in/benjamin-l-hofmann/>

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## Alumni? Students? Welcome to the family!

The class representatives from both the International and Israeli School of Sustainability have decided to join forces by enabling close connections between the students and the graduates to share and receive valuable information about the Sustainability world - from events, conferences, activist initiatives to job opportunities, professional consultation and more!

**Join the Sustainability family and stay connected:**

**Fill up the form:**

<https://forms.gle/uCEZmHaFSvfTb8HY9>

**Facebook group:**

<https://www.facebook.com/groups/idcsustainabilityalumnistudents>

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**LIKE OUR FACEBOOK PAGE**

**"בית הספר לקיימות - הבינתחומי הרצליה"**



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**Our Website**

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