OMRI DAVID ABARBANEL

PhD Candidate in Computational Chemistry

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006 Pitt

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EXPERIENCE

Teaching Assistant

University of Pittsburgh

- August 2018 Current
- Pittsburgh, PA
- Teaching general, organic, and physical chemistry undergraduate labs.

Research Intern

Ulijn Group - CUNY Advanced Science Research Center

May 2017 - July 2018

New York, NY

• Research project on using Secong Harmincs Generation Imaging to characterize peptide self-assembly nanustructures.

IT, Social & Digital Media Director

Israel Ministry of Tourism

- November 2011 April 2016
- New York, NY
- Managed the computer systems for all 5 tourism offices across the US and Canada.
- Managed the social media outlets (Facebook, Twitter, Youtube) and the website of the tourism office targeted at the North American market.

SaaS Tier 1

RSA

- November 2010 October 2011 ♥ Herzeliya, Isreal
- Supported and monitored systems used for cyber security for US and European banks.

Network Administrator

Israel Defence Force

- October 2007 May 2010
- Israel
- Managed the computer networks used by over 300 end-users
- Wrote SQL-like programs used by depatrments across Israel.
- Recieved the Excelence in Service award.

PUBLICATIONS

Journal Articles

- Abarbanel, O. D., Rozon, J., & Hutchison, G. R. (2022). Strategies for computer-aided discovery of novel open-shell polymers. The Journal of Physical Chemistry Letters, 13(9), 2158–2164. PMID: 35226497. doi:10.1021/acs.jpclett.2c00509
- Abarbanel, O. D., & Hutchison, G. R. (2021). Machine learning to accelerate screening for marcus reorganization energies.
 The Journal of Chemical Physics, 155(5), 054106. doi:10.1063/5. 0059682

EDUCATION

Ph.D. in Computational Chemistry University of Pittsburgh

Aug 2018 - Current

Using Machine Learning and Genetic Algorithms for Materials Discovery.

B.Sc. in Chemistry CUNY Hunter College

i Jan 2012 - May 2016

Thomas Hunter Honors Scholar. Graduated Magna Cum Laude.

SKILLS

Python Pytorch Tensorflow

Scikit-learn Data Visualization SQL

Bash Data Manipulation LATEX

Jupyter Git Computational Chemistry

LANGUAGES

HOBBIES



Sharing is caring

Biking
Fun way to stay active

ran way to stay active

3D PrintingUnlimited imagination

REFERENCES

Prof. Geoffrey Hutchison

@ University of Pittsburgh

Address Line 1
Address line 2