

David Furman, PhD

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Personal details

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Education

2013-2017 PhD, Theoretical Chemistry. Hebrew University of Jerusalem, under: Prof. Ronnie Kosloff and Prof. Yehuda Zeiri.

2012-2013 MSc. Theoretical Chemistry. Hebrew University of Jerusalem, under: Prof. Ronnie Kosloff and Prof. Yehuda Zeiri (Direct PhD track for outstanding students)

2006-2009 BSc. Chemistry. Ben-Gurion University of the Negev (magna cum laude)

Roles and Appointments

2018- Herchel Smith Research Fellow, University of Cambridge, UK

2015- Head, Computational Chemistry Group, Division of Chemistry, Nuclear Research Center – Negev, Israel (on leave)

2013-2015 Research Scientist, Computational Chemistry Group, Division of Chemistry, Nuclear Research Center – Negev, Israel

2012-2013 Chemistry tutor, “Negev Noble” project, Israel

2012 Visiting scholar, Department of Mechanical and Nuclear Engineering, Penn. State University, PA, USA

2008-2009 Research Assistant, Department of Chemistry, Ben-Gurion University of the Negev, Israel

2008-2009 Chemistry tutor, TEVA project, Beer-Sheva, Israel

2008-2009 Mathematics tutor, Center for Education Technology Ltd., Israel

Research Grants

2017 “High Performance Computing Equipment for Modeling Nickel Oxide Fuel Cells”, PAZY-IAEA Research Grant. (Co-PI)

2016-2018 “Theoretical Modeling of Nickel Oxide Fuel Cells”, PAZY-IAEA Research Grant. (Co-PI)

Awards

- 2018-2021 Recipient of the Herchel Smith Postdoctoral Research Fellowship, University of Cambridge, UK
- 2016-2022 Recipient of the Katzir Fellowship for Excellence in Research, MAFAT, Israel Ministry of Defense, Israel
- 2014 Qualification to direct PhD Track for Excellent MSc. candidates, Faculty of Natural Sciences, Hebrew University of Jerusalem
- 2009 Recipient of “100 Club” award (5000 NIS) for academic excellence during academic reserve service, Israel Defense Forces
- 2007 Recipient of the Zlotowski Award for excellent new candidates, Faculty of Natural Sciences, Ben-Gurion University of the Negev

Publications

11. Y Elbaz, D Furman, M. Caspary-Toroker, *Adv. Func. Mater.* (submitted)
10. D Furman, B Carmeli, Y Zeiri, R Kosloff, *J. Chem. Theory Comput.* 14, 2018
9. Y Elbaz, D Furman, M. Caspary-Toroker, *Phys. Chem. Chem. Phys.*, 2018
8. N Kalson[†], D Furman[†], Y Zeiri, *ACS Central Science*, 3, 2017
7. JC Oxley, D Furman, AC Brown, F Dubnikova, JL Smith, R Kosloff, Y Zeiri, *J. Phys. Chem. C* 121, 2017
6. V Fidelsky, D Furman, Y Khodorkovsky, Y Elbaz, Y Zeiri, M. Caspary-Toroker, *MRS Commun.*, 1-8, 2017
5. D Furman, R Kosloff, Y Zeiri, *J. Phys. Chem. C* 120 (50), 2016
4. D Furman, R Kosloff, Y Zeiri, *J. Phys. Chem. C* 120 (20), 2016
3. D Furman, F Dubnikova, A van Duin, Y Zeiri, R Kosloff, *J. Phys. Chem. C* 120 (9), 2016
2. D Furman, R Kosloff, F Dubnikova, S V Zybin, W A Goddard III, N Rom, B Hirshberg, Y Zeiri, *J. Am. Chem. Soc.* 136, 2014
1. N Rom, B Hirshberg, Y Zeiri, D Furman, S V Zybin, W A Goddard III, R Kosloff, *J. Phys. Chem. C* 117, 2013

[†]Denotes an equal contribution