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## Curriculum Vitae

Rana Zahdeh  
Palestine Polytechnic University  
Chemistry- Applied Sciences

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## Personal Information

Date/Place of Birth: 10.12.1980 (Hebron- Palestine)  
Country: Palestine  
Native Language: Arabic

## Education

2014 - present: Assistant professor- Faculty of Applied Sciences- PPU  
2010 - 2014: PhD in Computational chemistry, University of Vienna, Austria. This study was funded by DFG.  
2003 - 2005: Master degree in physical chemistry, Jordan University, Jordan. This study funded by DAAD.  
1999 - 2002: Bachelor degree in chemistry, Hebron University- Palestine. This study was funded by the Excel Grant at Hebron University  
1999: General Secondary Certificate in the science stream.

## Publications

- R. Obaid, D. Kinzel, M. Oppel, L. González. **Discrimination of Nuclear Spin Isomers Exploiting the Excited State Dynamics of a Quinodimethane Derivative** *J. Chem. Phys.*, **141**, 164323 (2014).
  - R. Obaid, D. Kinzel, M. Oppel, L. González. **Separating nuclear spin isomers using a pump-dump laser scheme.** *Theoret. Chem. Acc.*, **134**, 46 (2015).
  - R. Obaid, M. Leibscher. **A molecular symmetry analysis of the electronic states and transition dipole moments for molecules with two torsional degrees of freedom.** *J. Chem. Phys.*, **142**, 064315 (2015).
  - S. Belz, O. Deeb, L. González, T. Grohmann\*, D. Kinzel, M. Leibscher, J. Manz, R. Obaid\*, M. Oppel\*, G. D. Xavier and S. Zilberg. **Nuclear Spin Selective Torsional States: Implications of Molecular Symmetry.** *Z. Phys. Chem.*, **227**, 1021 (2013).
  - R. Zahdeh, R. El-Zaru and El-Hodaly. **Kinetics of oxidation of Cysteine and Captopril via [Mo(CN)8] and [W(CN)8].** *Polyhedron*, **26**, 3069 (2007).
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### **Research Experience and activities**

- Principle investigator of Chemistry and Nutrition research group in collaboration with German partner from Hannover University and got the PALGER fund.
- Steering committee member in The 8th Students Innovation Conference, Palestine Polytechnic University, Palestine
- A moderator in The 8th Students Innovation Conference, Palestine Polytechnic University, Palestine
- Training workshop on "From Traditional to Innovative Active Methods in Higher Education" in Djerba, Tunisia.
- Training workshop on "Student engagement" in Ramalla, Palestine
- Membership of "Research Hub" that is conducted by University of Notre Dame, USA.
- Organizing a workshop for discussing the research plane for the College of Applied Sciences for the coming ten years in the College of Applied Sciences, Palestine.
- Writing a research plane for the next 10 years for the College of Applied Sciences, Palestine.

### **Work Experience**

2019 – present: Head of Applied Chemistry and Biology Department.

2019 – present: Head of Scientific committee of College of Applied Sciences.

2019 – present: College council member in the College of Applied Sciences, Palestine Polytechnic University.

2018-2019: Member in The Scientific Research Council at Palestine Polytechnic University. Palestine.

2017-2018: Member in The Renewable Energy Committee at Palestine Polytechnic University. Palestine.

2014 – present: Lecturer and researcher at the College of Applied Sciences at Palestine Polytechnic University

2010 – 2014: Doctoral studies in the group of Prof. Dr. Leticia González at the Institute of Theoretical Chemistry, University of Vienna, Vienna, Austria and in the groups of Prof. Dr. Jörn Manz at the Institute for Chemistry and Biochemistry, Free University of Berlin, Berlin, Germany

2006 – 2010: Teaching physical chemistry(II) and quantum chemistry in Hebron

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University, Hebron, Palestine. Teaching at the Ministry of Education, Hebron, Palestine.

### Oral presentations

June 2011: *Molecular Symmetry of a Quinodimethane Derivative*. Group seminar, Free University of Berlin, Berlin, Germany December 2011 *Molecular Symmetry of CCD*. Trilateral project meeting, Hebrew University, Jerusalem, Israel

February 2013: *Molecular Symmetry of the Nuclear Spin Isomers of a Derivative of Quinodimethanes*. Group seminar, The University of Vienna, Vienna, Austria

July 2013: *Quantum Chemistry and Quantum Dynamics of the Nuclear Spin Isomers of a Derivative of Quinodimethanes*. Meeting with the trilateral project leaders, The University of Vienna, Vienna, Austria.

October 2013: *Molecular Symmetry, Quantum Chemistry and Quantum Dynamics of the Nuclear Spin Isomers of a Derivative of Quinodimethanes*. Public presentation of the dissertation topic in the Faculty of chemistry, The University of Vienna, Vienna, Austria.

April 2014: *Nuclear Spin Isomers of a Derivative of Quinodimethanes*. Group seminar, The University of Vienna, Vienna, Austria.

April 2014: *Discriminating the Nuclear Spin Isomers of a Derivative of Quinodimethanes*. Meeting with the trilateral project leaders, The University of Vienna, Vienna, Austria.

### Conferences

- 1) November 2019: 9th Palestinian International Chemistry Conference, Bethlehem, Palestine. Presentation title: *Kinetics and mechanism of N-acetylcysteine oxidation by pyridinium chlorochromate*.
  - 2) October 2018: 1<sup>st</sup> International Conference on “Medicinal Chemistry and Drug Discovery”, Islamabad, Pakistan. Presentation title: *Kinetics and mechanism of captopril oxidation by pyridinium chlorochromate*
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- 3) June 2016: The 5th Students Innovation Conference, Palestine Polytechnic University, Palestine. Poster title: *Diagnosing and Treating Kidney Stones*
  - 4) July 2014: ESPA 2014, the 9th Congress on Electronic Structure: Principles and Applications, Badajoz, Spain. Poster title: *Separating Nuclear Spin Isomers of a Quinodimethane Derivative using Pump Dump Laser Pulses*
  - 5) STC 2013: The 49th Symposium on Theoretical Chemistry, Erlangen, Germany. Poster title: *Determining the nuclear spin isomers of a derivative of quinodimethane in the  $T \rightarrow 0$  limit using the molecular symmetry group*
  - 6) October 2005: Chemistry between Academic and Industry, Amman, Jordan. Poster title: *Kinetics of Oxidation of Cysteine and Captopril via  $[Mo(CN)_8]$  and  $[W(CN)_8]$*

### **Especial skills**

1. Quantum chemistry packages (e.g. MOLPRO)
2. Programming skills (FORTRAN90)
3. LATEX
4. Windows and Linux based office suites
5. Statistics (SPSS applications)
6. Using Endnote by Microsoft office program
7. Computer programs and Internet
8. Team work administration
9. Social relationships

### **Awards and distinctions:**

1. 1999 - 2002: The Excel Grant at Hebron University for Bachelor study
  2. 2003 - 2005: DAAD scholarship for master study.
  3. 2010 – 2014: DFG scholarship for PhD study.
  4. 2018: PALGER fund for a research project
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