

# D.CHARITHA PERERA

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## *Curriculum vitae*

### Personal Information

**Address** Department of Chemistry, University of Maine, Orono, ME 04469

**Email** [pereradc89@gmail.com](mailto:pereradc89@gmail.com) , [charitha.perera@maine.edu](mailto:charitha.perera@maine.edu)

**Phone** +1 207 889 2030

**Nationality** Sri Lankan

### Academic Profile

**Ph.D in Chemistry** – University of Maine –Expecting 2020

**B Sc. (Special) Degree** – University of Ruhuna, Matara, Sri Lanka - **2014**

**Specialized – Chemistry**

### Research Experience and interests:

- Theoretical study of Catalytic Decomposition of Acetic Acid on MgO nanosurface.
- Theoretical study of structural and electronic properties of Mg(OH)<sub>2</sub> Clusters.
- Studying the transition state of glycosylation reaction.

### Publications:

- Duwage C. Perera, Jinasena W. Hewage, Nalin de Silva, Theoretical study of catalytic decomposition of acetic acid on MgO nanosurface, *Comput. Theor. Chem.*(2015) In Press, Available online 1 May 2015.

<http://www.sciencedirect.com/science/article/pii/S2210271X15001619>

- Angular Positioning System-Abstract for undergraduate innovation & invention exhibition at 8<sup>th</sup> Science Symposium , University of Ruhuna, Sri Lanka-2011
- Variety Tea Maker- Abstract for undergraduate innovation & invention exhibition at 9<sup>th</sup> Science Symposium , University of Ruhuna, Sri Lanka-2012

### Poster Presentation:

- “Ab initio studies of Magnesium Hydroxide Nanoparticles as potential catalysts for thermal decomposition of Acetic Acid” American Chemical Society NERM Binghamton, NY, October 6 2016.
- “Quantum Mechanical Studies of Catalytic effects on water splitting on ZnO clusters” American Conference on Theoretical Chemistry Boston, MA, July 2017.

## Experience

- Teaching Assistant – University Of Ruhuna, Sri Lanka (Physical Chemistry , Inorganic Chemistry & Organic Chemistry undergraduate courses) ,2014-2015
- Teaching Assistant – University Of Maine, USA (General Chemistry undergraduate courses), 2016 on ward.

## Awards

- Wiley Outstanding Poster Award at the Minnesota Workshop on ab initio modeling in Solid State Chemistry with CRYSTAL, Minneapolis, MN, July 2017.
- Passed the Australian National Chemistry Quiz conducted by Royal Australian Chemical Institute.

## Workshops and Summer Schools Attended:

- ES-2017, Electronic Structure Workshop, Princeton, June 2017.
- The Minnesota Workshop on ab initio modeling in Solid State Chemistry with Crystal, Minneapolis, July 2017.
- MolSSI software Summer School, Virginia Tech in Blacksburg, Virginia, July-August 2017.

## Key Skills

- Packages – Gaussian 09, Gauss view 05, NAMD, VMD, Mathematica
- Platform - Unix/Linux, Microsoft Windows
- Languages – Fortran, C++, Python
- Graphics – Gnuplot
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## Membership

- A member of Young Scientist Forum
- A member of American Chemical Society

## References

Prof. Jayendran C. Rasaiah

Senior Professor

Department of Chemistry

University of Maine

Orono , ME 04469

Email: [rasaiah@maine.edu](mailto:rasaiah@maine.edu)

Phone: +1 301 768 0175

Dr. Jinasena W. Hewage

Senior Lecturer

Department of Chemistry

University of Ruhuna

Matara , Sri Lanka

email: [jwhewage@gmail.com](mailto:jwhewage@gmail.com)

Phone: +94 714 500 389