

---

# ANTON PERERA

26, RAJA MAWATHA, 03RD KURANA, NEGOMBO11500

H: 94312228791 | C: 94773915556 | [antonsperera@ichemc.edu.lk](mailto:antonsperera@ichemc.edu.lk)

- 
- <https://www.linkedin.com/in/antonsperera/>
  - [https://www.researchgate.net/profile/Anton\\_Perera2](https://www.researchgate.net/profile/Anton_Perera2)

---

## *PROFESSIONAL SUMMARY*

Motivated researcher inspired to be innovative and to explore extensively in different aspects of chemistry. Especially proficient in many computational chemistry approaches with a good knowledge of underlying theories.

---

## *OBJECTIVE*

To pursue a career in research and development related to application of computational chemistry and to be involved in academia

---

## *EDUCATION*

MASTER OF PHILOSOPHY Computational Chemistry

University of Colombo

*Colombo, | 2018*

Expect to submit final thesis in May 2018

GRADUATESHIP IN CHEMISTRY Chemistry

Institute of Chemistry Ceylon

*Rajagiriya, WP, Sri Lanka | 2016*

Second Class Upper Division Honours

Maintained an average above 70% in Fundamentals of Physics for Chemists, Particle Physics, Electronics and Instrumentation for Chemists, Special Topics in Physical Chemistry, Physical Chemistry, Atomic Spectroscopic Methods of Analysis, Fundamentals of Chemical and Process Engineering, Computational Chemistry, Principles of Organic Chemistry and Biology for Physical Science Students. Averaged above 75% in Organic and Physical Chemistry practical final examinations

DIPLOMA English Language

Aquinas College of Higher Studies

*Colombo, WP, Sri Lanka | 2013*

Merit Pass

GENERAL CERTIFICATE OF EDUCATION:ADVANCED LEVEL Physical Sciences

Maris Stella College

*Negombo, WP, Sri Lanka | 2011*

GENERAL CERTIFICATE OF EDUCATION:ORDINARY LEVEL

Maris Stella College

*Negombo, WP, Sri Lanka | 2008*

Distinctions for 9 out of 10 subjects

---

## ***WORK HISTORY***

INDUSTRIAL TECHNOLOGY INSTITUTE

*Assistant Research Technologist | Colombo, WP | August 2017 - Current*

INSTITUTE OF CHEMISTRY CEYLON

*Graduate Teaching Assistant | Rajagiriya, WP | July 2016 - July 2017*

INDUSTRIAL TECHNOLOGY INSTITUTE

*Research Assistant(Volunteer) | Colombo, WP | 2015 - July 2016*

---

## ***EXPERIENCE***

Research

***2017***

- Researcher at Industrial Technology Institute from August 2016 to present in the project, *in-silico* and *in-vitro* screening of natural products against enzymes responsible for common diseases.
- Assisted in collaborative research projects of Institute of Chemistry Ceylon.
- Assisted in supervising undergraduate computational chemistry research students at College of Chemical Sciences.

***2016***

- Researcher at Industrial Technology Institute from December 2015 to July 2016, in the project *in-silico* and *in-vitro* screening of natural products against enzymes responsible for common diseases.
- Assisted in supervising undergraduate computational chemistry research students at College of Chemical Sciences.

***2015***

- Thesis submitted, "Molecular docking studies of human K-RAS protein with P34 and Coumarin derivatives"

## Teaching

*2016-2017*

- Teaching assistant in-charge of Computational Research and Learning Center(CRLC) at College of Chemical Sciences.
- Successfully carried out laboratory practical sessions as the teaching assistant in-charge of physical chemistry and taught 1st, 2nd, 3rd and 4th year undergraduate students at physical, organic and inorganic lab sessions.
- Conducted tutorial classes for 3rd and 4th-year undergraduates in quantum chemistry and physical chemistry 1st and 2nd year undergraduates in mathematics and inorganic chemistry etc.

*2015*

- Assisted in conducting computational chemistry experiments for 4th year undergraduates.

## Professional and Administrative

*2016-2017*

- Assistant Secretary of the academic board of College of Chemical Sciences and academic board finance committee.
- Successfully coordinated and assisted in seminars conducted by the Institute of Chemistry Ceylon.
- Member of the executive committee of Alumni Association of College of Chemical Sciences

*2013*

- Undergraduate student representative for student association of College of Chemical Sciences

*2009-2010*

- Executive secretary of Maristonian Prefects' Association

---

## *PRESENTATIONS*

### Oral Presentations

*2017*

- "Xanthone derivatives from natural products found in Sri Lanka as acetylcholinesterase inhibitors; an in-silico approach" at 46th annual sessions of Institute of Chemistry Ceylon.
- "In-silico screening of xanthone derivatives from Sri Lankan natural products against acetylcholinesterase" at of International Conference on Drug Discovery & Development Colombo Sri Lanka

*2016*

- "Molecular Docking Studies of Human K-Ras Protein with P34 Derivatives" at 16th Asian Chemical Congress in Dhaka, Bangladesh.
- "Molecular Docking Studies of Human K-Ras Protein with Coumarin Derivatives" at 45th annual

sessions of Institute of Chemistry Ceylon.

2015

- Undergraduate research project, "Molecular docking studies of human K-RAS protein with P34 and Coumarin derivatives" at Ninth Annual Research Sessions of College of Chemical Sciences.

2014

- Oral Presentation of "Binding of K-RAS to P34: a molecular docking approach" at International Conference on Chemical Education and Research for Industrial Development & Sustainable Growth in a Knowledge-Based Economy.

Invited Presentations

- "Computational chemistry research; a student's perspective" at Seminar on IT applications and Computational chemistry organized by Institute of Chemistry Ceylon.

Poster Presentations(accepted)

2017

- "Molecular Docking and Molecular Dynamics Simulation-Based Approach to Explore Natural Products Found in Sri Lanka as Potent Acetylcholinesterase Inhibitors" - Asia-Pacific Conference of Theoretical and Computational Chemistry (APCTCC8)

---

## PUBLICATIONS

Abstracts

- Perera, A. S., Ranasinghe, P., Ratnaweera, C. N. & Udawatte, C. S. In-silico screening of xanthone derivatives from Sri Lankan natural products against acetylcholinesterase. in *Proceedings of International Conference on Drug Discovery & Development Colombo Sri Lanka* (2017).
- Perera, A. S., Premakumara, G. A. S., Ratnaweera, C. N. & Udawatte, C. S. Xanthone derivatives from natural products found in Sri Lanka as acetylcholinesterase inhibitors; an in-silico approach. *Chemistry in Sri Lanka* 34 (2017).
- Perera, A. S., Premakumara, G. A. S., Ranasinghe, P., Jayasinghe, P. & Ratnaweera, C. N. In-silico study of Acetylcholinesterase inhibitors from xanthone derivatives from natural products found in Sri Lanka. in *Proceedings of Biennial Research Symposium of Industrial Technology Institute* (2017).
- Perera, A. S. & Udawatte, C. S. Molecular Docking Studies of Human K-Ras Protein with Coumarin Derivatives. *Chemistry in Sri Lanka* 33, (2016).
- Perera, A. S. & Udawatte, C. S. Molecular Docking Studies of Human K-Ras Protein with P34 Derivatives. in *Proceedings of 16th Asian Chemical Congress in Dhaka, Bangladesh* (2016).
- Perera, A. S., Guruge, A. G. & Udawatte, C. S. Binding of K-Ras to P34 and its derivatives ; a molecular docking approach. in *Proceedings of International Conference on Chemical Education and Research for Industrial Development & Sustainable Growth in a Knowledge Based Economy* (2014).

Dissertations

- Perera, A. S. & Udawatte, C. S. Molecular Docking of Human K-Ras protein. (Institute of Chemistry Ceylon, 2015).

---

## *SKILLS*

- Teaching and tutoring
- Managing teaching laboratories
- Strong math background
- Calorimetric assays
- UV/VIS Spectrophotometry
- Chemical kinetics measurements
- Analyze 1H and 13C NMR spectra
- Extraction
- Separation and purification techniques
- Trained in lab safety
- High-Performance Liquid Chromatography
- Gas Chromatography
- Research in molecular drug design using computational chemistry
- Compound optimization using computational methods
- Exposure to High Performance Computing, large scale parallel processing and GPUs
- Docking and Scoring using different algorithms
- Molecular dynamics simulations and Free energy calculations
- Ab-initio and DFT quantum calculations
- Quantum Chemistry packages(Spartan, Gaussain, GAMESS)
- Molecular Docking tools(DOCK6, Autodock 4/Vina, GOLD, Glide)
- Schrodinger suite(Docking, IFD, AutoQSAR, ADME/Toxicity)
- Molecular graphics visualization and analysis(Pymol, Chimera, VMD, Discovery Studio, Maestro)
- Data Analysis(SPSS, SAS)
- Python Language basics
- Advanced troubleshooting(Hardware and Software)
- UNIX and Linux-based tools
- Shell scripting

---

## *LANGUAGES*

- Competent in written and verbal English and strong verbal communication with engaging public speaking abilities.
- Native language: Sinhalese

---

## *AFFILIATIONS*

Royal Society of Chemistry-Affiliate member

Institute of Chemistry Ceylon- Associate Member

---

## *EXTRA-CURRICULAR ACTIVITIES*

- Member of the chief organizing committee of Mega Chemistry Exhibition and Trade Fair CHEMEX 4-2017.
- Rendered service as the chief organizer and member of the organizing committees of several events organized by the Student Association of College of Chemical Sciences.
- Member of the Student Orchestra of College of Chemical Sciences(2012-2014)

- Participated and won awards at all island competitions in English language, Information Technology, singing, and drama.
  - Committee member of Maristonian Science Association(2009)
- 

## *REFERENCES*

- Prof. S.P Deraniyagala, Ph. D

Senior Professor (Chair)

Department of Chemistry

Faculty of Applied Sciences University of Sri Jayawardenepura

Email: s.p.deraniyagala@gmail.com

- Dr. Chandani Udawatta, Ph.D

Senior Lecturer at CCS

Institute of Chemistry Ceylon

Email: chandaniu@hotmail.com

Undergraduate research supervisor

- Dr. Chinthaka Ratnaweera, Ph.D

Senior Lecturer at CCS

Institute of Chemistry Ceylon

Email: cnr88w@gmail.com