

# Geemi P. Wellawatte

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EDUCATION	<i>University of Rochester</i> <b>Ph.D</b> , Candidate in Chemistry	<i>Rochester, NY</i> 2020-Present
	<i>University of Rochester</i> <b>M.S</b> , Chemistry	<i>Rochester, NY</i> 2018-2020
	<i>University of Colombo</i> <b>B.S</b> , Special Degree in Computational Chemistry (First Class Honors)	<i>Colombo, Sri Lanka</i> 2013-2017
EXPERIENCE	<b>Graduate Research Assistant (Year IV)</b> Advisor: Prof. Andrew White <i>Department of Chemistry, University of Rochester</i>	<i>January, 2019 - present</i> <i>Rochester, NY</i>
	<ul style="list-style-type: none"><li>● <b>Research Focus:</b> Using all-atom and coarse-grained molecular dynamics with machine learning to understand chemistry and design materials</li></ul>	
	<b>Graduate Teaching Assistant</b> <i>Department of Chemistry, University of Rochester</i>	<i>Rochester, NY</i>
	<ul style="list-style-type: none"><li>● <i>Physical Chemistry-I (CHM 251)</i></li><li>● <i>Quantum Chemistry-I (CHM 451)</i></li><li>● <i>Energy, Science, Tech &amp; SO (CHM 286)</i></li><li>● <i>Chemistry Concepts, Systems &amp; Practicals I (CHM 131)</i></li></ul>	<i>Fall 2019</i> <i>Fall 2019</i> <i>Spring 2019</i> <i>Fall 2018</i>
	<b>Demonstrator</b> <i>Department of Chemistry, University of Colombo</i>	<i>Colombo, Sri Lanka</i>
	<ul style="list-style-type: none"><li>● <i>Physical Chemistry Laboratory-I</i></li><li>● <i>Computational Chemistry Laboratory-I</i></li><li>● <i>Physical Chemistry Laboratory-I</i></li><li>● <i>Computational Chemistry Laboratory-I</i></li><li>● <i>Computational Chemistry Laboratory, Msc.</i></li><li>● <i>Computational Chemistry Laboratory, Msc.</i></li></ul>	<i>Semester-I, 2017</i> <i>Semester-I, 2017</i> <i>Semester-II, 2017</i> <i>Semester-II, 2017</i> <i>Semester-I, 2017</i> <i>Semester-II, 2017</i>
PROFESSIONAL QUALIFICATIONS	<i>Chartered Institute of Marketing (CIM), UK-Professional Postgraduate Diploma in Marketing (Level 7)</i>	<i>2015</i>
	<i>Chartered Institute of Marketing (CIM), UK-Professional Diploma in Marketing (Level 6)</i>	<i>2014</i>
	<i>Chartered Institute of Marketing (CIM), UK-Professional Certificate in Marketing (Level 4)</i>	<i>2012</i>

SELECTED HONORS & AWARDS	<i>Esther M. Conwell Graduate Fellowship, Department of Chemistry, University of Rochester</i> <i>August 2021-August 2022</i>	
	<i>MolSSI Covid-19 Seed Fellowship, Molecular Sciences Software Institute, VA</i> <i>July 2020-December 2020</i>	
	<i>Sherman-Clarke Fellowship, Department of Chemistry, University of Rochester</i> <i>August 2018-August 2019</i>	
REFEREED JOURNAL PUBLICATIONS	<i>Model Agnostic Generation of Counterfactual Explanations for Molecules</i> <b>G. P. Wellawatte</b> , A. Sheshadri, A. D. White. <i>Chemical Science</i> . 2022	
	<i>Graph neural network based coarse-grained mapping prediction</i> <b>G. P. Wellawatte*</b> , Z. Li*, M. Chakraborty, H. A. Gandhi, C. Xu, A. D. White. <i>Chemical Science</i> . 2020, 11, 9524-9531 *Equal contribution	
	<i>HOOMD-TF: GPU-Accelerated, Online Machine Learning in the HOOMD-blue Molecular</i> <i>Dynamics Engine</i> R. Barrett, M. Chakraborty, D. Amirkulova, H. Gandhi, <b>G. P. Wellawatte</b> , A. D. White. <i>The Journal of Open Source Software</i> . 2020, 5(51): 2367	
ORAL PRESENTATIONS	<i>February 01, 2022: M<sub>2</sub>D<sub>2</sub> 2022</i> Invited Talk: Molecular Modeling And Drug Discovery M <sub>2</sub> D <sub>2</sub> Seminar Series; <b>Model</b> <b>Agnostic Counterfactual Explanations for Molecules</b>	
	<i>August 22, 2021: ACS 2021</i> Division: Division of Computers in Chemistry; <b>Predicting coarse-grained (CG) mappings</b> <b>using graph neural networks: Applications in CG molecular dynamics</b>	
	<i>June 16, 2021: MTSM 2021</i> Session: Applications of Machine Learning, Contributed Speech; <b>Applications of Machine</b> <b>Learning in Coarse-Grained (CG) Molecular Dynamics (MD)</b>	
	<i>April 26, 2021: Virtual Talk, University of Rochester,</i> Third year talk, Chemistry Department; <b>Developing Coarse-Grained Models Using</b> <b>Machine Learning</b>	
	<i>November 16-20, 2020: Virtual AIChE Annual Meeting</i> Forum Plenary: Computational Molecular Science and Engineering Forum; <b>Theory and</b> <b>application of graph neural networks for molecular modeling</b>	
INTERNSHIPS	<i>May 31, 2022 - August 26, 2022</i> <b>Molecular Modeling and Cheminformatics Intern;</b> <i>Merck, Rahway, NY, USA</i>	
	<i>Summer 2022 (Declined)</i> <b>DAAD-RISE Professional Intern;</b> <i>ABB Corporate Research, Germany</i>	
LEADERSHIP & AFFILIATIONS	<i>Graduate Student Advisory Committee, University of Rochester</i> <i>May, 2022</i> Graduate Student Representative	
	<i>November, 2021 -</i>	

<i>ACS Graduate Student Symposium Planning Committee for Fall 2022, August 2022</i> Treasurer	<i>May, 2021 -</i>
<i>Title IX Education Assessment Committee, University of Rochester</i> Graduate Student Representative	<i>July, 2020 - May, 2021</i>
<i>Transportation Advisory Committee, University of Rochester</i> Graduate Student Representative	<i>May, 2020 - May, 2021</i>
<i>Graduate Student Association, University of Rochester</i> Treasurer	<i>June, 2019 - May, 2021</i>
<i>Chemical Society, University of Colombo, Sri Lanka</i> Vice President	<i>April, 2016- April, 2017</i>
<i>Varsity Rowing Crew, University of Colombo, Sri Lanka</i> Oarswoman/Cox	<i>March, 2012- March, 2015</i>

REFERENCES FOR  
CONTACT

<i>Prof. Andrew White</i> Associate Professor of Chemical Engineering University of Rochester, Rochester, NY.	<a href="mailto:andrew.white@rochester.edu">andrew.white@rochester.edu</a> Phone: 585 276 7395
<i>Prof. Ignacio Franco</i> Associate Professor of Chemistry, Associate Professor of Physics, Leonard Mandel Faculty Fellow University of Rochester, Rochester, NY.	<a href="mailto:ignacio.franco@rochester.edu">ignacio.franco@rochester.edu</a> Phone: 585 275 8209
<i>Prof. Alan M. Grossfield</i> Associate Professor of Department of Biochemistry and Biophysics University of Rochester, Rochester, NY.	<a href="mailto:alan_grossfield@urmc.rochester.edu">alan_grossfield@urmc.rochester.edu</a> Phone: 585 276 4193
<i>Prof. Wolf-Udo Schröder</i> Professor of Chemistry, Professor of Physics University of Rochester, Rochester, NY.	<a href="mailto:schroeder@chem.rochester.edu">schroeder@chem.rochester.edu</a> Phone: 585 275 8263