

# SUPUN PATHIRANA

## PERSONAL DETAILS

- Nationality : British Citizen
- Birthday : 02 June 1980
- Birth Place : Birmingham, United Kingdom
- Gender : Female

## EDUCATION

<b>2013 October</b>	Utrecht University	Utrecht, The Netherlands
<i>PhD in Atmospheric Chemistry &amp; Physics</i>		
■ Thesis Topic	: Mass independent fractionation in atmospheric carbon monoxide & CO+OH reaction.	
■ Supervisor	: Prof. Thomas Röckmann	
■ Co-Supervisor	: Prof. Matthew Johnson	
■ Funding	: Initial Training Network on Mass Independent Fractionation (A Marie Curie Initial Training Network) & Utrecht University	
<b>2008 August</b>	Montclair State University	Montclair, U. S. A.
<i>MS in Chemistry</i>		
■ Thesis Topic	: A Fluorescent Photoinduced Electron Transfer (PET) Sensor for Cations with a Separate PET Channel to Suppress Proton Signals	
■ Supervisor	: Prof. Saliya A. de Silva	
<b>2005 May</b>	Montclair State University	Montclair, U. S. A.
<i>BS in Chemistry, Computer Science &amp; Mathematics</i>		

## SKILLS

- Build analytical systems to measure stable isotopes.
- Advance user of ISODAT software and Thermo Finnigan Delta V Plus IRMS.
- Synthesis & Purification of organic compounds.
- Operational knowledge of analytical instrumentation: Bruker Avance 300/300MHz FT-NMR , Agilent 1100 Series LC/MSD, Cary 300 Bio UV-Visible Spectrophotometer, Cary Eclipse Fluorescence Spectrophotometer, FT-IR, Raman Spectrophotometer, HPLC & GC.
- Experience in Gaussian & Spartan.
- Advance computer user. (Operating Systems: Windows, Macintosh, UNIX. Experience in programming in JAVA & C++; Can adopt to other languages easily)
- Excellent written & verbal communication and a remarkable ability to work efficiently under high intensity environments, independently or in a team. (Fluent in languages English & Sinhala)

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## SUMMER SCHOOLS & TRAINING

- INTRAMIF Summer School 2010 (23/8/10-3/9/10)  
University of East Anglia, Norwich, United Kingdom
- INTRAMIF Summer School 2011 (22/8/11-26/8/11)  
Universite Pierre et Marie Curie, Paris, France
- Customer Training Certificate -Advance MS Products (25/1/10-27/1/10)  
ThermoScientific, Breman, Germany
- Atmospheric Chemistry & Chemical Processes  
Utrecht University, Utrecht, Netherlands
- Fire extinguisher Training (12/10/10)  
Utrecht University, Utrecht, Netherlands

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## PUBLICATIONS

“A fluorescent “off-on-off” proton switch derived from natural products and further studies of fluorescent “off-on” and “on-off” proton switches” de Silva, S. A.; Loo, K. C.; Amorelli, B.; Pathirana, S. L.; Nyakirang’ani, M.; Dhramasena, M.; Demaraïs, S.; Dorcely, B.; Pullay, P.; Salih, Y. A. *J. Materials Chem.* **2005**, 15, 2791.

“A Computational Study of a Fluorescent Photoinduced Electron Transfer (PET) Sensor for Cations” de Silva, S. A.; Kasner, M. L.; Whitener, M. A.; Pathirana, S. L. *Int. J. Quantum Chem.* **2004**, 100, 753.

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## PRESENTATIONS & POSTERS

“One-pot Synthesis of N-Substituted Phthalimides from Methylarenes” de Silva, S.; Dhruve, S.; Isidor, D.; Nyakirang’ani, M.; Pathirana, S.; Klu, E.; Osinaiya, T. 226th American Chemical Society National Meeting, New York, NY, September 7-11, 2003, ORGN 107.

“Structural and Computational Studies of Fluorescent Photoinduced Electron Transfer (PET) Sensors for Cations” de Silva, S. A.; Whitener, M. A.; Kasner, M. L.; Pathirana, S. L. 226th American Chemical Society National Meeting, New York, NY, September 7-11, 2003, CHED 186.

“Computational Study of a Fluorescent Photoinduced Electron Transfer (PET) Sensor for Cations” de Silva, S. A.; Kasner, M. L.; Whitener, M. A.; Pathirana, S. L. 12th Conference on Current Trends in Computational Chemistry, Jackson, MS, October 31- November 1, 2003.

“A Dynamic Model for Two-Strain Tuberculosis with Re-infection” Pathirana, S. L. 28th Annual Sigma Xi Student Research Conference, Montclair State University, May 7, 2005.

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## WORK EXPERIENCE

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9/10-Present	Institute for Marine & Atmospheric research Utrecht	UU
<i>Teaching Assistant</i>		
■ Atmospheric Chemistry & Chemical Processes		
6/09-7/09	Department of Chemistry & Biochemistry	MSU
<i>Adjunct Faculty</i>		
■ Experimental Organic Chemistry I & II.		
1/06-9/08	Upward Bound Program	MSU
<i>Instructor (Mathematics &amp; Chemistry) &amp; Summer Camp Instructor</i>		
■ Algebra II, Geometry, General Chemistry & Computer Applications.		
8/07-9/07	Health Careers Program	MSU
<i>Instructor (University Chemistry Recitation)</i>		
■ Fine-tuned the analytical skills of the students through problem solving.		
9/05-12/05	Department of Mathematical Sciences	MSU
<i>Graduate Assistant</i>		
■ Basic Mathematics & Algebra.		
9/03-9/05	College of Science & Mathematics CORE	MSU
<i>Student Computer Technician</i>		
■ Installed, configured and upgraded operating systems and software. Installed, assembled and configured computers, monitors, network infrastructure and peripherals such as printers, scanners and related hardware. Troubleshoot problems with hardware and software, e-mail, network and peripheral equipment. Acted as a technical resource in assisting users to resolve problems with equipment and data.		
6/02-8/02	Department of Chemistry & Biochemistry	MSU
<i>Undergraduate Research Assistant</i>		
■ Fluorescent Photoinduced Electron Transfer Sensors.		
9/01-5/05	Center for Academic Development & Assessment	MSU
<i>Tutor (Chemistry &amp; Mathematics)</i>		
■ Developed a steady clientele of undergraduate students, assisting in their study and understanding of Calculus I, II & III, Statistics & Statistical Programming, General Chemistry I & II, Organic Chemistry I & II, Physical Chemistry I & II.		
9/01-5/03	Office of Information Technology	MSU
<i>Student Lab Assistant</i>		
■ Assisted students by providing hardware (Computers with Windows, Macintosh & UNIX operating systems and printers) and software (Microsoft Office Suite Applications, JMP 4, SAS, Netscape, Outlook and web mail) support in a laboratory setting.		