

# Michael Strafford Scholz

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## Education

2016–	<b>Doctor of Philosophy in Chemistry</b> , University of Melbourne, Parkville. Thesis: <i>Electronic spectroscopy and structure of gas-phase ions</i> Advisor: Professor Evan Bieske.
2012–2015	<b>Bachelor of Science (First Class Honours) in Chemistry</b> , University of Melbourne, Parkville. Thesis: <i>Collisional activation of ions in a tandem drift tube ion mobility mass spectrometer.</i> Advisor: Professor Evan Bieske.

## Awards

2018	Nico Nibbering Travel Award, International Mass Spectrometry Conference 2018, Florence Student Travel Scholarship, Pacific Conference on Spectroscopy and Dynamics 2018, San Diego
2017	Runner up, Best Talk, RACI Victoria Inorganic Student Symposium, La Trobe University Study Abroad Travelling Scholarship, University of Melbourne, Parkville
2016–2019	Australian Postgraduate Award / Research Training Program scholarship, University of Melbourne and Australian Government
2016	Best Poster, RACI Physical Chemistry 2016 Meeting, Christchurch Dixson Scholarship, University of Melbourne, Parkville Dean's Honours List, University of Melbourne, Parkville

## Presented talks

2018	University of Melbourne–Tohoku University Chemistry workshop, The University of Melbourne, invited Experimental Quantum Biophysics seminar, Aarhus University, <b>invited</b> Electronic and Photonic Materials seminar, University of New Mexico, <b>invited</b> Pacific Conference on Spectroscopy and Dynamics, San Diego, contributed
2017	RACI Victoria Inorganic Student Symposium, La Trobe University, contributed
2016	University of Melbourne–USA Chemistry Symposium, The University of Melbourne, invited RACI Physical Chemistry Student Conference, Katoomba, contributed

## Presented posters

2019	RACI Physical Chemistry 2018 Meeting, University of Western Australia
2018	RACI Victoria Inorganic Student Symposium, Monash University 22nd International Mass Spectrometry Conference, Florence
2017	Australian and New Zealand Society for Mass Spectrometry 26 Conference, Flinders University
2016	RACI Physical Chemistry 2016 Meeting, University of Canterbury

## Teaching

Mar. – Oct. 2016	<b>Laboratory demonstrator</b> , CHEM10004 and CHEM10006 (Chemistry 1 and Chemistry for Biomedicine), University of Melbourne, Parkville.
Mar. 2017–	<b>Laboratory demonstrator</b> , CHEM30015 (Advanced Practical Chemistry), University of Melbourne, Parkville

## Publications

- M. S. Scholz, G. Muller, N. I. Bartlett, U. Jacovella, E. J. Bieske  
Electronic spectrum of the ferrocenium cation  
in preparation for *J. Chem. Phys.* (preprint available upon request)
- 13 J. N. Bull, J. T. Buntine, M. S. Scholz, E. Carrascosa, E. J. Bieske  
Photodetachment and photoreactions of substituted naphthalene anions in a tandem ion mobility spectrometer  
*Faraday Discuss.* in press, doi:10.1039/C8FD00217G.
- 12 J. N. Bull, M. S. Scholz, E. Carrascosa, G. da Silva, E. J. Bieske  
A double molecular photoswitch driven by light and collisions  
*Phys. Rev. Lett.* **2018**, 120 (22), 223002.
- 11 E. Carrascosa, J. N. Bull, M. S. Scholz, N. J. A. Coughlan, S. Olsen, U. Wille, E. J. Bieske  
Reversible photoisomerization of the isolated green fluorescent protein chromophore  
*J. Phys. Chem. Lett.* **2018**, 9 (10), 2647–2651.
- 10 M. S. Scholz, J. N. Bull, E. Carrascosa, B. D. Adamson, G. K. Kosgei, J. J. Rack, E. J. Bieske  
Linkage photoisomerization of an isolated ruthenium sulfoxide complex: sequential versus concerted rearrangement  
*Inorg. Chem.* **2018**, 57 (9), 5701–5706.
- 9 J. N. Bull, E. Carrascosa, N. Mallo, M. S. Scholz, G. da Silva, J. E. Beves, E. J. Bieske  
Photoswitching an isolated donor-acceptor Stenhouse adduct  
*J. Phys. Chem. Lett.* **2018**, 9 (3), 665–671.
- 8 J. N. Bull, M. S. Scholz, E. Carrascosa, E. J. Bieske  
From *E* to *Z* and back again: reversible photoisomerisation of an isolated charge-tagged azobenzene  
*Phys. Chem. Chem. Phys.* **2018**, 20, 509–513.

- 7 M. S. Scholz, J. N. Bull, N. J. A. Coughlan, E. Carrascosa, B. D. Adamson, E. J. Bieske  
Photoisomerization of protonated azobenzenes in the gas phase  
*J. Phys. Chem. A* **2017**, *121* (34), 6413–6419.
- 6 S. F. Lim, B. L. Harris, G. N. Khairallah, E. J. Bieske, P. Maître, G. da Silva, B. D. Adamson, M. S. Scholz, N. J. A. Coughlan, R. A. J. O’Hair, M. Rathjen, D. Stares, J. M. White  
Seleniranium ions undergo  $\pi$ -ligand exchange via an associative mechanism in the gas phase  
*J. Org. Chem.* **2017**, *82* (12), 6289–6297.
- 5 J. N. Bull, E. Carrascosa, M. S. Scholz, N. J. A. Coughlan, E. J. Bieske  
Online measurement of photoisomerization efficiency in solution using ion mobility mass spectrometry  
*Analyst* **2017**, *142*, 2100–2103.
- 4 J. N. Bull, M. S. Scholz, N. J. A. Coughlan, E. J. Bieske  
Isomerization of an intramolecularly hydrogen-bonded photoswitch: protonated azobis(2-imidazole)  
*Phys. Chem. Chem. Phys.* **2017**, *19*, 12776–12783.
- 3 D. C. Georgiou, M. A. Haghighatbin, C. F. Hogan, M. S. Scholz, J. N. Bull, E. J. Bieske, D. J. Wilson, J. L. Dutton  
A strong *cis*-effect in an imidazole-imidazolium-substituted alkene  
*Angew. Chem. Int. Ed.* **2017**, *56* (29), 8473–8480.
- 2 J. N. Bull, M. S. Scholz, N. J. A. Coughlan, A. Kawai, E. J. Bieske  
Monitoring isomerization of molecules in solution using ion mobility mass spectrometry  
*Anal. Chem.* **2016**, *88* (24), 11978–11981.
- 1 N. J. A. Coughlan, M. S. Scholz, A. J. Trevitt, C. S. Hansen, B. D. Adamson, E. J. Bieske  
Photo and collision induced isomerization of a cyclic retinal derivative: an ion mobility study  
*J. Am. Soc. Mass. Spectrom.* **2016**, *27*, 1483.

## References

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