

Michael Richer

PhD Candidate

Education

- 2015–present **PhD chemistry**, *McMaster University*, Hamilton, ON, present candidate.
2011–2015 **BSc chemistry**, *Laurentian University*, Sudbury, ON, *magna cum laude*.

Publications

- 2021 Taewon David Kim, Ramón Alain Miranda-Quintana, Michael Richer, and Paul W Ayers. Flexible ansatz for n-body configuration interaction. *arXiv preprint*, 2021. arXiv:2102.01171
- 2021 Taewon David Kim, Michael Richer, Gabriela Sánchez-Díaz, Farnaz Heidar-Zadeh, Toon Verstraelen, Ramón Alain Miranda-Quintana, and Paul W Ayers. FanPy: a Python library for prototyping multideterminant methods in ab initio quantum chemistry. *arXiv preprint*, 2021. arXiv:2102.01224
- 2021 Toon Verstraelen, William Adams, Leila Pujal, Alireza Tehrani, Braden D Kelly, Luis Macaya, Fanwang Meng, Michael Richer, Raymundo Hernández-Esparza, Xiaotian Derrick Yang, and others. IOData: a Python library for reading, writing, and converting computational chemistry file formats and generating input files. *Journal of Computational Chemistry*, 42(6):458–464, 2021. doi:10.1002/jcc.26468
- 2017 Paul A Johnson, Peter A Limacher, Taewon D Kim, Michael Richer, Ramón Alain Miranda-Quintana, Farnaz Heidar-Zadeh, Paul W Ayers, Patrick Bultinck, Stijn De Baerdemacker, and Dimitri Van Neck. Strategies for extending geminal-based wavefunctions: open shells and beyond. *Computational and Theoretical Chemistry*, 1116:207–219, 2017. doi:10.1016/j.comptc.2017.05.010
- 2016 Farnaz Heidar-Zadeh, Michael Richer, Stijn Fias, Ramón Alain Miranda-Quintana, Matthew Chan, Marco Franco-Pérez, Cristina E González-Espinoza, Taewon David Kim, Caitlin Lanssens, Anand HG Patel, and others. An explicit approach to conceptual density functional theory descriptors of arbitrary order. *Chemical Physics Letters*, 660:307–312, 2016. doi:10.1016/j.cplett.2016.07.039