

## Cameron D. Smith

Dartmouth College  
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### Education

**2019**                    **Bachelor of Science (Honours, 1<sup>st</sup> Class) – Chemistry**

University of Western Australia

**Thesis:**                Theoretical approaches to the analysis of the Criegee intermediate: A balance of computational efficiency and accuracy

**Details:**              In this year of research, I investigated the suitability of computationally affordable theoretical models: DFT, MP2 and CCSD(T)-based ab initio methods in the investigation of the Criegee intermediate.

**Supervisor:**        Associate Professor Amir Karton

**2018**                    **Bachelor of Science – Chemistry and Physics**

University of Western Australia

### Professional Experience

**February 2021 – June 2021**

First Graphene Limited,  
Henderson, Perth, Australia.

**Quality Manager**

- Development of Quality Management Systems,
- HAZOP and HAZID studies of new and established processes,
- Creation of new and amendments to existing controlled documents and procedures.

**August 2020 – June 2021**

First Graphene Limited,  
Henderson, Perth., Australia.

**Industrial Chemist**

- Wet chemistry,
- Maintenance of electrochemical cells and processing equipment,
- Waste treatment in accordance with environmental regulations,
- Data processing with QA/QC.

**July 2017 – July 2020**

Intertek, Cloud Break/  
Maddington, Perth, Australia.

**Laboratory Technician**

- Wet chemistry,
- Acid, cyanide, and water leaching processes of soil and rock,
- Use of automatic titration device, PSD, SIE, UV-Vis, XRF, TGA, and Carbon-Sulphur analyzer,
- Calibration of laboratory equipment in accordance with NATA requirements,
- Data processing with QA/QC including business-client relations.

## Publications

1. "Kinetics and thermodynamics of reactions involving Criegee intermediates: An assessment of Density Functional Theory and ab initio methods through comparison with CCSDT(Q)/CBS data", **Smith, C.D.**; Karton, A., *Journal of Computational Chemistry*, 2020, 41, 328-339.

## Presentations

1. Oral presentation. "The suitability of theoretical methods in the analysis of the Criegee intermediate", **Smith, C.D.**, 2<sup>nd</sup> annual Western Australian Computational Chemistry Conference, Perth, Australia, December 2019.

## Teaching

### June 2014 – July 2015

TLG (Teach Learn Grow)

### Rural Tutor

- Three separate, one week, one-on-one mathematics tutoring and mentoring programs for disadvantaged children at Three Springs Primary School and Nulsen Primary School.

## Affiliations

Member of the Golden Key International Honours Society.