

# Daniel Celis Garza | CV

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## Education

### University of Oxford

*DPhil in Science and Technology of Fusion Energy (Fusion CDT)*

**Oxford, Oxfordshire, UK**

*Oct 2016–2020 (Expected)*

Discrete dislocation dynamics modelling. Advisers: Edmund Tarleton & Angus Wilkinson.

### Monterrey Institute of Technology and Higher Education

**Monterrey NL, MX**

*BSc. in Chemistry*

*Aug 2010–May 2015*

Thesis in theoretical chemical physics. Advisers: John F. Stanton & Marcelo Videia Vargas.

## Professional Experience

### DYCSI Soluciones

*SAP ABAP Developer*

**Monterrey NL, MX**

*Jun 2015–May 2016*

### Rice University

*Undergraduate Researcher*

**Houston TX, USA**

*Jun–Aug 2014*

Celis-Garza, D. *et al* (2015). Correlations and symmetry of interactions influence collective dynamics of molecular motors. *JStat Mech*, 2015(4), P04013.

## Programming Languages

*Advanced:* CUDA, C/C++, Fortran,  $\LaTeX$ . *Intermediate:* Mathematica, Python, R, Matlab, Shell.

## Presentation Experience

### Oral Presentations

*National and International Conferences*

*2010–Present*

*Durham University:* SymposiumMX XV. *University of Oxford:* conference, 5 seminars. *Rice University:* seminar. *ITESM:* 4 seminars, 2 conferences. *UANL:* seminar.

### Poster Presentations

*National and International Conferences*

*2010–Present*

*University of York:* Fusion Frontiers 2017. *Culham Centre for Fusion Energy:* PhD Showcase. *University College London:* Mexico Energy Summit 2017. *ITESM:* 2 conferences.

### Outreach & Teaching

*2010–Present*

*Skype a Scientist:* Over 15 Q&A sessions with primary and secondary schools from all over the world. *LiveEdu:* livestreaming scientific software development. *ITESM:* 3 Python workshops, 8 Science Fairs.

**Languages:** *Native:* Spanish, English. *Conversational:* French.

## Interests

- High performance computing
- Applied mathematics
- Multiscale & multiphysics modelling
- Parallel algorithms
- Computational mathematics
- Education and outreach