

# Taimoor Sohail

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## Education

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**The Australian National University** **Canberra, Australia**  
*PhD Candidate in Earth Sciences* *2016–2020*  
**Working Thesis Title:** *Can convection drive Southern Ocean circulation?*  
**Supervisors:** Dr. Bishakhdat Gayen and Dr. Andrew McC. Hogg  
**Funded by:** Endeavour Scholarship (partial) and Centre of Excellence in Climate Extremes (partial)

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**Lafayette College** **Easton, PA, USA**  
*Bachelor of Science in Mechanical Engineering* *2010–2014*  
*GPA: 3.84/4.00, magna cum laude*

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## Research Experience

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**Young Professional Officer – Climate Change** **November 2015 – January 2016**  
*LEAD Pakistan* *Islamabad, Pakistan*

- Head of Operations for the Climate & Development Knowledge Network (CDKN) funded by Department for International Development;
- Co-ordinated with CDKN teams in India, Pakistan and the United Kingdom to ensure efficient deployment of development projects from the design to delivery stage.

**Research Associate** **November 2014 – November 2015**  
*Centre for Climate Research & Development (CCRD)* *Islamabad, Pakistan*

- Project Title: *Low-carbon Scenario Analysis Greenhouse Gas Inventory project*
- Implemented for the Government of Pakistan, in collaboration with the International Institute for Sustainable Development (IISD);
  - Supported the Centre to manage current projects, including coordinating meetings and conferences and drafting research proposals.

**Research Assistant (Part-time)** **May 2013 – May 2014**  
*Department of Engineering Studies, Lafayette College* *Easton, PA, USA*

- Project Title: *Liquid Desiccant Solar Thermal Energy Systems*
- Constructed laboratory apparatus including a data acquisition interface for controlling and recording experimental parameters.

**Research Assistant (Part-time)** **December 2011 – January 2012**  
*Department of Mechanical Engineering, Lafayette College* *Easton, PA, USA*

- Project Title: *Arterial Blood Flow Modeling*
- Created a 2D model of the blood flow in the Abdominal Aortic, and Right and Left Renal Arteries with COMSOL Multiphysics.

## Teaching

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**Lab Demonstrator, Climate System Science** **July 2017 – Present**  
*Research School of Earth Sciences, ANU* *Canberra, Australia*

**Lab Demonstrator, Physics of Fluid Flows** **February 2017 – May 2017**  
*Research School of Earth Sciences, ANU* *Canberra, Australia*

**Teaching Assistant, Climate Change** **August 2013 – December 2013**  
*Department of Geology, Lafayette College* *Easton, PA, USA*

## Meetings & Conferences

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### Oral Presentations.....

- **Sohail, T.**, Gayen, B. and Hogg, A. McC. Can convection drive Southern Ocean circulation? *RSES Student Conference*, 2017. *Awarded Best Speaker*.
- **Sohail, T.**, Vreugdenhil, C. A., Gayen, B. and Hogg, A. McC. A turbulence-resolving model of Southern Ocean circulation. *20th Australasian Fluid Mechanics Conference (AFMC)*, 2016.

### Posters.....

- **Sohail, T.**, Gayen, B. and Hogg, A. McC. A turbulence-resolving model of Southern Ocean circulation. *AMOS/MSNZ Conference & ANZ Climate Forum*, 2017.
- **Sohail, T.**, Gayen, B. and Hogg, A. McC. A turbulence-resolving model of Southern Ocean circulation. *Center of Excellence in Climate System Science Workshop*, 2016.
- **Sohail, T.**, Adams, M., Sweigart, S., and Congdon, H., Gorlov Vertical Axis Water Turbine Research. *How Green is My Valley: Campus Sustainability Conference*, 2014.

### Summer/Winter Schools.....

<b>6th ARC Centre of Excellence for Climate System Science Winter School</b> <i>hosted by the ARC Centre of Excellence on Climate System Science</i>	<b>June 2017</b> <i>Sydney, Australia</i>
<b>14th Coupled Data Assimilation Summer School</b> <i>hosted by the Chinese Academy of Sciences (CAS)</i>	<b>June 2015 – July 2015</b> <i>Beijing, China</i>

## Skills

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### Computer.....

**Programming Languages:** Python, Fortran, Matlab, C

**Software Packages:** Paraview, Numeca FINE/Open, COMSOL Multiphysics, Engineering Equation Solver (EES), Wolfram Mathematica, Autodesk Inventor, ANSYS, NI LabVIEW, DirectSoft PLC, MathCAD, Adobe Photoshop, InkScape

### Language.....

**English:** Fluent

**Urdu:** Fluent

**French:** Intermediate

## Awards & Honours

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- 2016 Endeavour Scholarship Recipient
- Tau Beta Pi (Engineering Honour's Society)
- Best Speaker, RSES Student Conference 2017

## Outreach & Volunteering

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<b>STEM Professional: Scientists and Mathematicians in Schools</b> <i>Commonwealth Scientific and Industrial Research Organisation (CSIRO)</i>	<b>July 2017 – Present</b> <i>Canberra, Australia</i>
<b>Student Representative: Equity and Diversity Committee</b> <i>Research School of Earth Sciences, ANU</i>	<b>May 2017 – Present</b> <i>Canberra, Australia</i>
<b>GFD Seminar Convenor</b> <i>Research School of Earth Sciences, ANU</i>	<b>April 2017 – Present</b> <i>Canberra, Australia</i>
<b>Student Volunteer</b> <i>Australian Meteorological Observation Society (AMOS)</i>	<b>February 2017</b> <i>Canberra, Australia</i>