

Taimoor Sohail

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Education

The Australian National University **Canberra, Australia**
Masters in Philosophy, Research School of Earth Sciences *2016–2018*
Thesis Title: *Can convection drive Southern Ocean circulation?*
Supervisors: Dr. Bishakhdatta Gayen and Dr. Andrew McC. Hogg
Funded by: Endeavour Scholarship (administered by the Australian Government)

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

Research Experience

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

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

Oral Presentations.....

- **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 Schools.....

14th Coupled Data Assimilation Summer School
hosted by the Chinese Academy of Sciences (CAS)

June 2015 – July 2015
Beijing, China

Skills

Computer.....

Programming Languages: Python, Fortran, Matlab

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

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

Outreach & Volunteering

Student Representative: Equity and Diversity Committee
Research School of Earth Sciences, ANU

May 2017 – Present
Canberra, Australia

GFD Seminar Convenor
Research School of Earth Sciences, ANU

April 2017 – Present
Canberra, Australia

Student Volunteer
Australian Meteorological Observation Society (AMOS)

February 2017
Canberra, Australia