

## **Sarah Helen Bouckoms**

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United States and New Zealand Citizenship

### **Academic Qualifications & Achievements**

- 2015 The Class of 1959 Teaching Fund for a Career in the Classroom: Awarded by the Head of School to recognize excellence in teaching by a faculty member in the first years of their teaching career.
- 2014 Birkmaier Honoree, Discovery Museum and Planetarium Bridgeport, CT
- 2011 MSc in Physics at Canterbury University, Christchurch, New Zealand  
Light modeling in the Ice Cube Neutrino Observatory
- 2009 Post Graduate Certificate in Antarctic Studies (PCAS) Canterbury University, Christchurch, New Zealand
- 2007 Bachelors of Arts in Physics University of Connecticut, Storrs, Connecticut, USA
- 2007 Katzenstein Prize - top senior physics research paper. Awarded by the University of Connecticut, Storrs, Connecticut, USA
- 2003 High School Diploma Farmington High School, Farmington, Connecticut, USA
- 2003 Junior Young Engineer award from FIRST Robotics Team, Farmington High School - Working with professional engineers to build a goal orientated robot for national competitions.

### **Work Experience**

- October 2021- Present Safety Technician for United States Antarctic Program. Summer at McMurdo, Winter at South Pole. Maintaining OSHA standards, trainings, permits, job hazard assessments,
- Sept 2020 to October 2021 Public Engagement Officer for Antarctic Heritage trust, Touring New Zealand with Hillary's Hut Virtual Reality Experience, assisting with youth programmes and educational materials
- May- Sept 2020 Department of Environmental Conservation for New York State, Assistant Forest Ranger, Keene Valley, NY. Monitoring and maintaining trails, educating public, assisting with Search and Rescues, updating trail heads
- October 2019 to September 2020 Lake Placid Ambulance Service, Per Deim Emergency Medical Technician and Ambulance Driver.
- April to October 2019 Programme Manager for Antarctic Heritage Trust Young Inspiring Explorers Summit
- April to October 2019 ChristchurchNZ project manager for Explorers Club events manager in Christchurch
- October 2018 to present Albatros Expeditions, Medical Emergency Response Team Leader, Expedition Guide, and Naturalist during Antarctic Season

July and August 2018 -	Participate in the Students On Ice Arctic Expedition coordinating the Citizen Science program for 128 students on board the 3 week expedition
August 2013 - to June 2018	Teacher at Miss Porters School, Farmington, CT. Implemented, developed or revised curriculum for Conceptual Physics Environmental Lab Science, Robotics, Climate Change and Astronomy. Earth Club, Astronomy and Marine Science faculty adviser. Equestrian coach.
August 2016	Citizen Science Program coordinate with Adventure Canada on Arctic Explorer Trip
September 2015 to present	Stonehurst Open Learning Opportunities: SOLO Wilderness Medicine Instructor for Wilderness First Aid (16-hour course) and Wilderness First Responder (72 hour course)
June - August 2013	Juneau Icefield Research Project, Safety Field Staff position. Assisted with 125 miles ski traverse with 30 students conducting field research and safety skills.
August 2012 - June 2013	Physics teacher – Hebrew High School of New England. Two Physical Science and two junior Physics, Honors and Academic levels.
2009-2012	Teaching Assistant Canterbury University, Christchurch, New Zealand.
2011 - 2012	Research Assistant, Council of Managers of National Antarctic Programs,
2007-2008, 2012 -	Per Diem teaching position at Bridgeport Discovery Museum, Bridgeport, Connecticut, USA. Creating science activities for visiting schools, creating week long programming for summer sessions, curating planetarium shows.

### **Community Involvement**

2015 to present	Polar Educators International member (Committee 2017 -2018)
2014 and 2017	Sc3 – Student Climate and Conservation Congress educator held at the National Training and Conservation Center for 150 students over 10 days
2012	ANZAC New Zealander of the Year award with Student Volunteer Army relief efforts after Christchurch Earthquakes; 3 weeks participation
2012 to present	Simsbury and Bloomfield Volunteer Ambulance. Weekly shifts riding in an urban setting. Including regular training and lectures.
2010 to present	Explorers Club Member, Australia & New Zealand Branch Coordinator, Co-Chair of the Polar Film Festival (2013 – present)
2008 to present	New Zealand Antarctic Society, Canterbury Branch

### **Certifications**

May 2013	EMT Basic Certification – New York State ex. December 2022 National Registration Ex March 2023
June 2011	Wilderness EMT – SOLO ex Sept 2023
2003	CPR certification ex. February 2022
April 2018	American Mountain Guide Climbing Wall Instructor ex. April 2021
September 2018	Safe Powerboat Handling by US Powerboating