



Australian Government



THE PRIME MINISTER'S
PRIZES FOR SCIENCE

Celebrating 20 years

Dr Samantha Moyle

Brighton Secondary School, South Australia

2019 PRIME MINISTER'S PRIZE FOR EXCELLENCE IN SCIENCE TEACHING IN SECONDARY SCHOOLS

- Dr Samantha Moyle is an award-winning science teacher whose love of learning runs through every interaction she has with her students, her peers and the broader community.
- Dr Moyle is committed to a life of learning, which makes her an outstanding role model for her students. In addition to her Bachelor of Science with First Class Honours and a Graduate Diploma of Education, Dr Moyle also has a doctorate in neuroscience, and is currently studying both an Associate Degree of Engineering and a Masters of Education in Quantifying Engagement.
- Constantly striving to make science fascinating and relevant to as many students as possible, Dr Moyle has created many cutting-edge lessons using relatable real world examples. Such examples include:
 - Comparing Iron Man suits with real-life exosuits that help paraplegic people walk again
 - Making fizzy bath bombs for Mother's Day to develop an understanding of acid base reactions
 - Looking at the effects of ocean acidification on marine organisms such as crustaceans and coral
 - Creating terrariums of varying ecosystems to demonstrate how living and non-living parts of the environment interact
 - Project Igloo, a STEAM-based challenge that used technology to meet a design brief, which resulted in a four metre diameter igloo.
- Beyond the classroom, Dr Moyle has volunteered her time for many years at the South Australian Science Teachers Association (SASTA), especially with the Oliphant Science Awards.
- Dr Moyle manages a Facebook page—[DocMoyle](#) that promotes current science trends, hints and helpful learning tips. She also has a YouTube channel—[DocSamScience](#) with instructional videos such as 'how to write science reports' and 'calculating statistics in Excel'.
- Dr Moyle has published eBooks about her science programs that she shares for free.
- As a member of the Girls in STEM community for several years, Dr Moyle has implemented an animatronics unit, which takes students through skills development for creating an animatronic head (i.e. the eyes are coded to move). The course is linked to future career options such as movie animatronics, visual FX and biomedical devices (e.g. haptics).
- Using a National Science Week grant and self-sourced sponsorship, Dr Moyle's National Science Week initiative allowed her Year 8 students to make a 50-metre walking trail through a giant digestive system model. This project gained significant local media attention and was accessed by students from several primary schools.
- Dr Moyle has won the SA Public Teaching and South Australian Science Teachers Association Outstanding Teacher Awards, and the Early Career STEM Educator of the Year at the SA Science Excellence Awards.





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QUALIFICATIONS

- BSc in Animal Physiology, Marine Biology, Conservation Biology, Bio Medicine, Flinders University (2000)
- BSc (Hons1), Flinders University (2001)
- Doctorate of Philosophy (PhD), Flinders University (2007)
- Graduate Diploma of Education (Secondary), Monash University (2007)
- Certified Solidworks Associate (CSWA), Open Universities Australia (2014)
- Associate Degree of Engineering, Open Universities Australia/University of South Australia (current)
- Masters of Education, University of South Australia (current)

CAREER HIGHLIGHTS

- 2011, 2012, 2014 and 2017 Nomination for DECD Excellence in Public Education Awards
- 2017 Shortlisted for Excellence in Public Education Award—Secondary Teacher
- 2017 Top 20 Finalist for the Schools Plus Commonwealth Bank teaching fellowship (National)
- 2017 Shortlisted for DECD Excellence in Public Education Award
- 2016 ADE Worldwide Institute Class
- 2015 Women in Innovation (Winnovation) Award - Maths
- 2015 Apple Distinguished Educator (ADE)
- 2014 Winner, DECD SA Excellence in Public Education Award—Teacher's Health Fund, Early Career Teacher
- 2014 Winner, SA Science Excellence Award, Early Career STEM Educator of the Year
- 2013 CEASA Recognition Award
- 2013 CSIRO Helix prize
- 2013 Australian Academy of Science, Science by Doing, WOW in Science Activity Award—SA recipient
- 2013 Credit Union SA SASTA Outstanding Teach Award—Middle School