



Staff News

2 September 2013

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Vice-Chancellor's message

Staff Profile

My name is Jonathan Hall and I am a postdoctoral research associate in the School of Chemistry and Physics, specialising in theoretical nuclear/particle physics.

I've been at the University since 2004 when I started my Bachelor degree in Optics and Photonics. I then switched to theoretical physics in my Honours year and completed a PhD in 2011.

I'm developing a mathematical framework for calculating quantum mechanical effects in nuclear particles. This is important for gaining a deeper understanding of the structure of matter in the universe.

I love seeing the intimate connection between the world of the microscopically small – and its quantum weirdness – and the outer reaches of the universe. These fundamental insights contribute to many areas of innovation that utilise electromagnetic or nuclear radiation, such as medical science, the defence industry, the energy sector and space exploration equipment.

But much more than that, edification and elevation through discovery touches on the noble instinct in all of us to follow a bold path to a more full and satisfying explanation of the matter in the universe.

We invite you to share your own story by filling in this [questionnaire](#) and emailing it to staff.news@adelaide.edu.au



Jonathan Hall

Achievements