

Arjun Balaji

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EDUCATION

- Present **University of Western Australia**
- Doctor of Medicine (M.D.)
- 2014-2017 **University of Western Australia**
- Bachelor of Science with a Major in Physics
 - GPA of 6.5 (Out of 7) with a Course WAM of 81% (High Distinction)
- 2016 **University College London Exchange**
- Bachelor of Science with a Major in Physics
 - Averaged a FIRST GRADE across 4 units
- 2008-2014 **Perth Modern School**
- Graduated with an Australian Tertiary Admission Rank (TER/ATAR) of 99.4

RESEARCH

2017 – 2018 **Magnetisation Dynamics and Spintronics Group at UWA**

Position: Researcher

Title: *A Quasi-Analytical Approach to Describe the Behaviour of Magneto-Static Surface Spinwaves Incident on a Step Potential*

- Conducted theoretical research on Magneto-Static Surface Spinwaves under the supervision of Prof. Mikahil Kostylev, soon to be submitted to *Condensed Matter Physics B* and *Journal of Applied Physics*.
- Conducted numerical simulations and experiments using *Mathematica* and formatted the publication in *LATEX*.
- This work required extensive data analysis and the use of the *Wolfram Suite*, *Microsoft Office (Excel)* and *Python*.

2018 - Present **VasLab at the Harry Perkins Institute of Medical Research**

Position: Machine Learning Researcher

- I have made several state-of-the-art segmentation algorithms exploiting both high performance computing toolkits and GPU acceleration, models are currently being deployed to the cloud as well.
- I also made the VasLab website in conjunction with a small team at the group.
- Group Head Dr. Barry Doyle is my current supervisor at VasLab.

PROFESSIONAL WORK EXPERIENCE AND ROLES

2015 – 2018 **Youth Science Communicators Incorporated**

Position: Founder, Chairman

Roles & Responsibilities:

- Youth Science Communicators Incorporated is a not-for-profit that I founded in 2015 that aims to encourage young people to develop a passion for science. Our goal is to foster an appreciation for problem solving and critical thinking skills, with a focus on their applications in non-STEM fields.
- Currently we have 6 hard working members from varied backgrounds all passionate about science advocacy and fostering a generation of independently thinking adults who can also reason scientifically.
- The classical and modern leadership skills I have acquired here allow me to motivate my peers to produce their best work for the benefit of others.
- I also produced a social media page that aims to increase our outreach to interested youth in conjunction with our Schools Presentation Program.

2015, 2018 **Red Party Treasurer**

Position: Main Subcommittee Member (2015), Treasurer (present)

Roles & Responsibilities:

- Part of the executive committee that organises WA's largest student run AIDS awareness party which raised more than \$40 000 in 2015.
 - I am currently in charge of all the finances of the Red Party, which takes large scale coordination and attention to detail.
 - Organising a large-scale event on a very tight budget. As Red Party is fully not for profit any dollar spent meant less money to OXFAM. As such the team and I had extremely tight budget constraints which were adhered to without damaging the quality of the event itself, as testified by the thousands of students that came.
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2015 – 2016

Friends Restaurant

Position: Wine Waiter

Perth's Highest rated restaurant

Roles & Responsibilities:

- Greeting clients at the door and making a strong first impression of quality service and integrity for the whole team.
 - A thorough understanding of the many hundred wines and their pairings which I learnt very quickly in just several weeks through my own research and practical experience at the restaurant after hours.
 - Waiting tables at events with several hundred people where one must be fast and still maintain quality, client orientated service.
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2014 - present

Tutoring

Position: Private Tutor

Roles & Responsibilities:

- Private and group tutoring of highschools students from some of Perth's top private and public schools.
 - I tailor each class for each student or group to most effectively convey complex ideas in areas of Mathematics, Physics, Chemistry, English and Human Biology
 - Maintaining a professional relationship with my students and their parents and constantly improve my reputation as an outstanding communicator and educator.
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2015-2017

Dr. Yes

Position: Volunteer

Roles & Responsibilities:

- Travel to schools across Perth and rural Western Australia to educate primary and secondary school children about Sexual Health, Mental Health and drugs and alcohol.
 - Give presentations to the whole class while also taking small groups and discussing and educating them about very sensitive topics in an empathetic and honest manner.
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SOCIAL DEVELOPMENT

- Fluent in Tamil a South Indian dialect widely spoken in South India, Sri Lanka, Malaysia, Singapore and parts of Thailand

ACHIEVEMENTS / AWARDS

3 time recipient of the CFV Clarke Scholarship from *Commonwealth Bank*

2020 Perkins Summer Scholarship at the *Harry Perkins Medical Research Institute*, David Goldstone Scholar at the *Rotary of Crawley*

Recipient of the Robert and Maude Gledden Scholarship

Recipient of the Principal's Award at *Perth Modern School* (Second highest Award after the DUX)

Member of the 99 Club, Top one percent of the state in TER

Certificate of Commendation – receiving more than 20 A grades in year 11 and 12

EXTERNAL INTERESTS AND ACHIEVEMENTS

- National Youth Science Forum (NYSF) Alumnus.
 - Have more than 150 hours of volunteered community service.
 - Engineers Australia Certificate.
 - Indian Society of Western Australia Academic Achievement Award.
 - Active Sports player and part of the 2013 Premier winning Willetton District Cricket team.
 - Winner of Chess for Life 2009 tournament.
 - Love travel and have spent a cumulative year abroad in the past 3 years, visiting 4 continents and 25+ countries.
 - Trekking and have been to Lang Tang I's base camp in Nepal.
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REFEREES

Available upon request