

Profiles of Singapore Sustainability Scholarship Scholars

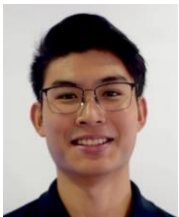
National Environment Agency

S/N	Name and age	Course and University	Profile
1	Ryarn Leck Jiongrui 	Degree in Chemical Engineering and Biotechnology Tripos University of Cambridge	Ryarn's passion for sustainability was sparked during a research project in which he explored the use of common bio-waste, such as fruit peels, for removing heavy metals from water. This experience opened his eyes to the potential of turning everyday waste into innovative solutions for pressing environmental challenges. It was a formative moment that instilled in him a strong sense of purpose: to play an active role in advancing sustainable development, not just in Singapore, but on a global scale. Pursuing a degree in Chemical Engineering, Ryarn aspires to deepen his understanding of how science and technology can be harnessed to address complex environmental issues. He is especially excited about the opportunity to study overseas, where he hopes to gain fresh perspectives, exposure to cutting-edge research, and insights into international approaches to sustainability. With this knowledge, he aims to return to Singapore and contribute meaningfully to the country's efforts in building a more resilient, resource-efficient and environmentally responsible future. He is particularly driven to tackle novel and evolving challenges, such as circular economy integration and decarbonisation of industries, through innovative and practical engineering solutions.
2	Aman Pathak	Master of Physics University of Oxford	From a young age, Aman has been captivated by the beauty of nature, from the mesmerising night sky to the majestic creatures that roam our planet. This deep admiration for the natural world inspired him to pursue the Singapore Sustainability Scholarship, particularly in the context of the growing climate crisis, which poses an existential threat to Singapore.

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			Aman's fascination with the natural world was also crucial in sparking his interest in physics. Inspired by pioneers such as Einstein and Feynman, he became captivated by how physics allows us to describe nature with remarkable precision. Over time, this passion grew stronger, and he devoted much of his time in school to studying the subject, solidifying his decision to pursue physics at university. This scholarship represents a unique opportunity to apply the skills and knowledge gained through physics to tackle the pressing challenges of the climate crisis. Equipped with an understanding of the underlying processes driving climate change, Aman hopes to contribute to innovative solutions to mitigate its impact and protect the environment.
3	AaroHi Chaudhary 	Master of Chemistry University of Oxford	AaroHi first explored sustainability and the environment through a project investigating water hyacinth, a weed that could remove toxic dyes and chemicals from industrial wastewater. This research sparked her passion for using chemistry to develop cost-effective and feasible solutions for environmental issues. She began studying chemistry at a deeper level, joining the Olympiad programme at her school and even undertaking undergraduate modules at NUS. She continued her environmental research journey by completing a project on the toxicity of nano plastics to plants. Keen to explore sustainability from different angles, AaroHi also interned at NEA's Public Health Policy Department. She has decided to further her studies in chemistry, hoping to bridge the gap between scientific research and its real-world environmental applications. Outside of academics, AaroHi enjoys sewing her own clothes, making her personal contribution towards sustainability.
4	Oliver Alexander Wang	TBC, Commencing studies in 2026/2027	Oliver developed an interest in sustainability through science research, where he investigated the potential of repurposing waste into useful by-products, promoting the concept of a circular economy. He found fulfilment in directly addressing real-world issues, which inspired him to continue pursuing science for environmental betterment and to work towards translating scientific innovation into practical applications.

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			Through his further studies, he hopes to expand his knowledge of molecular biology and epidemiology, building a foundation that will enable him to tackle a wide range of environmental challenges in his future career at NEA.
5	Vignesh S/O Manoharan 	Bachelor of Engineering in Civil Engineering National University of Singapore	Vignesh's early passion for civil engineering has evolved into a profound understanding of how the built environment can champion sustainability. This understanding drives his exploration of technical domains, including materials science, construction methodologies and infrastructure planning, to minimise environmental impact, an approach that resonates with NEA's core mission. His particular interest lies in adapting civil engineering practices to support Singapore's sustainability objectives, considering not just the construction phase but the entire operational lifespan of structures. Vignesh is motivated by the prospect of combining sustainable practices with engineering expertise to address infrastructure needs whilst reducing ecological footprint. He finds inspiration in NEA's portfolio, especially landmark projects such as the Tuas Integrated Waste Management Facility, hawker centre developments and the implementation of noise and environmental control measures. Through the scholarship, he aspires to advance the organisation's mission by championing low-carbon materials, enhancing waste and emissions management, and ensuring sustainability throughout the construction lifecycle. Vignesh is excited about his growth within NEA, where he hopes to contribute innovative yet practical solutions to Singapore's environmental challenges.

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1	Mohd Kasyful Azhim Bin Mohd Kamal Ariffin 	Bachelor of Engineering in Chemical Engineering Singapore Institute of Technology	Kasyful is a mid-term recipient of the Singapore Sustainability Scholarship and is currently pursuing a degree in Chemical Engineering at the Singapore Institute of Technology. Over the course of his undergraduate studies, Kasyful became intrigued by the concept of hydrodynamics and the process of water purification and was drawn to pursue a career in the water industry. He passionately advocates for community sustainability initiatives and believes that sustainability requires both technical expertise and a collaborative approach with people from all walks of life. He hopes to encourage more Singaporeans to appreciate and adopt sustainability as a way of life. Upon graduation, Kasyful is excited to contribute to Singapore's Water Story, and is eager to work on the wide range of sustainability initiatives across PUB's operations.
2	Carolynn Chong 	Bachelor of Engineering in Renaissance Engineering Nanyang Technological University	Carolynn is a passionate advocate for making cities better places to live. With cross-cutting interests across civil engineering, urban planning, and smart-city technologies, Carolynn is dedicated to finding innovative ways to enhance urban liveability. She believes that improving cities is a complex, multidisciplinary challenge that requires collaboration across diverse fields, and she is eager to contribute her skills to create a positive impact on society. Carolynn's hands-on experience includes volunteering with the Urban Redevelopment Authority (URA), where she helped verify mapping networks across the city. This stint deepened her appreciation for the thoughtful planning that goes into urban development and opened her eyes to the critical importance of integrating water into urban systems and planning. Upon graduation, she hopes to adopt a people-centric lens to water resources planning, further enhancing urban liveability in Singapore.

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3	Cordeiro Ryan Andre 	Bachelor of Engineering in Mechanical Engineering National University of Singapore	Driven by a lifelong curiosity about how things work and a passion for solving practical problems, Ryan has earned multiple distinctions and awards in his academic journey. From a young age, Ryan developed a keen interest in examining the inner workings of complex systems and joined national competitions such as the SUTD Electric Vehicle Design Challenge, where he had the opportunity to apply his theoretical knowledge to build an electric go-kart. Ryan's experience at the competition deepened his understanding of real-world engineering challenges. After his GCE 'A' Levels, Ryan embarked on an internship with PUB, where he led a project to design a strainer system for the thickening centrifuge at a water reclamation plant. Even though he encountered many challenges during the project, Ryan gained valuable exposure in handling real-world engineering issues, such as balancing cost, performance and reliability in large-scale water systems. The project solidified Ryan's interest to pursue engineering in university and explore other areas of PUB's work. In the long run, Ryan hopes to be registered as a Professional Engineer, and to contribute to enhancing PUB's infrastructure resilience and sustainable operations.
4	Chye Qing Ning Alison 	Bachelor of Engineering in Environmental Engineering National University of Singapore	Alison's passion for environmental sustainability has blossomed over the past few years, especially during the pursuit of her Diploma in Environmental and Water Technology at Ngee Ann Polytechnic, where she was exposed to a wide range of environmental challenges and innovative solutions. As part of her diploma studies, Alison interned at PUB where she was involved in a project exploring membrane technology used for NEWater production. This experience deepened her interest in the water industry and her desire to pursue a career in environmental engineering, which would provide opportunities to work on developing practical and sustainable solutions to real-world issues. In her free time, she enjoys rollerblading and crocheting, enabling her to stay active, connect with nature, and express her creative side.

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5	Chan Wanteng 	Bachelor of Engineering in Mechanical Engineering TBC, Commencing studies in 2027	Wanteng has a long-standing interest in examining the impacts of climate change on Singapore and recognises the urgency of finding solutions to mitigate climate change. He has taken a keen interest in coastal protection and is excited to pursue a career with PUB to further Singapore's long-term endeavor to strengthen climate resilience, and to contribute to PUB's mission to safeguard our coastlines from rising sea levels. An active contributor and leader in his schooling days, Wanteng often seeks opportunities to pick up new skills and serve the community. He volunteers regularly at Meet-the-People Sessions in his constituency and community outreach events at Choa Chu Kang GRC. This has helped him to develop a deeper understanding of government policies as well as the concerns of his fellow citizens. Wanteng's experiences have developed and deepened his sense of empathy, responsibility and purpose, and ignited his commitment to join the Public Service upon completion of his studies.
6	Kevin Huang 	Bachelor of Science in Biological Sciences University College London	Since a young age, Kevin's fascination with biodiversity and the natural sciences has fueled a deep and enduring passion for biology and nature conservation. A firm believer of the importance of science communication, Kevin also regularly engages his peers to share his extensive knowledge and foster greater appreciation for Singapore's biodiversity. He has been invited by NParks and Nature Society Singapore as a guest speaker for various events to share about his interest in biodiversity and wildlife photography. Kevin is fascinated by the natural world, and this has led him to carry out research projects in Chemistry and Biology involving hydrolysis, microbiology and rocky shore ecology. Upon graduation, Kevin hopes to apply his expanded knowledge on biological sciences and contribute to Singapore's water security and resilience and ensuring water quality in our reservoirs and waterways, while also supporting local biodiversity.

Singapore Food Agency

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1	Chua Yi Shou Darren 	Bachelor of Veterinary Science University of Queensland	Darren is a national swimmer and has been swimming since he was twelve years old. He aspires to contribute to Singapore's aquaculture sector. His passion for aquaculture was nurtured through his hobby, where he successfully bred a pair of goldfish and did aqua scaping projects. He also created a Dutch-style planted tank to breed Apistogramma. He wishes to leverage his skills to contribute to Singapore's aquaculture scene and hopes to build cordial relationships with farmers. He would like to play a part in encouraging farmers to adopt new and emerging technologies.
2	Ashley Tricia Leow 	Bachelor of Science in Biotechnology Imperial College London	Ashley is interested in biotechnology, particularly in alternative and cultivated meats. Her interest is driven by her commitment to animal welfare and innovation in Singapore's food landscape. While she believes in ethical treatment of livestock, she also acknowledges the importance of food security and scalability in production. She believes that cultivated meat is crucial for Singapore's food security, offering sustainable solutions and efficient use of resources. She aspires to be a scientist, as well as be involved in fieldwork and policymaking.
3	R Sai Shashank	TBC, Commencing studies in 2027	Shashank is driven by his passion for sustainability, which he demonstrated through various research projects during his International Baccalaureate (IB) programme, particularly in novel foods. His interest in food stemmed from the importance it plays in our lives. Food is not just about health and nutrition, but he believes that it has a role in connecting people emotionally.

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4	Ryan Ng Yiheng 	TBC, Commencing studies in 2026	Ryan is passionate about sustainability and environmental conservation. He plans to pursue studies in life sciences, relating to food security. During his National Service, he was in-charge of everyday rations in his company. Ryan has learnt many valuable lessons about food security during this time. It allowed him to deepen his understanding of food supply systems, its vulnerabilities, and the various factors that could affect food supply. As part of his interest in food security, Ryan wishes to contribute to the uptake of local food production and urban farming in Singapore.
5	Wang Yitian 	Bachelor of Veterinary Science / Veterinary Medicine TBC, Commencing studies in 2026	Yitian developed an interest in veterinary science through watching nature documentaries in his younger years. This inspired him to want to be involved in food safety and security, particularly in areas such as inspection processes and disease monitoring. He wishes to play a part in keeping Singapore's food safe.