

Profiles of In-service Scholars

Ministry of Sustainability and the Environment

S/N	Name and age	Course and University	Profile
1	Ang Zuo Jin 	Master of Science in Energy Systems and Data Analytics University College London	As the Senior Assistant Director (Nuclear Safety & Radiation Protection) in the Energy & Climate Policy Division, Zuo Jin is responsible for nuclear safety and radiation protection policies at MSE. Zuo Jin will be pursuing the Master of Science in Energy Systems and Data Analytics at University College London. This programme will equip her with technical expertise in data analytics, complementing her background in policy and operations and enabling her to bridge the gap between data-driven solutions and policy formulation to tackle complex environmental and energy challenges.
2	Tan Sok Huang 	Master of Sustainability Singapore Management University	As the Senior Assistant Director (Environmental Protection Policy) in the Environmental Protection Policy Division, Sok Huang formulates and reviews a suite of environmental protection policies at MSE. Sok Huang will be pursuing the Master of Sustainability at Singapore Management University. This programme will enable her to gain broader understanding of the sustainable use of organisational and natural resources in the green economy, as well as leverage the knowledge and experience of industry leaders in championing environmental sustainability.

National Environment Agency

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1	Fareena Binte Abdul Rahim 	Master of Science in Data Science for Sustainability National University of Singapore	Fareena works in NEA's Pollution Control 1 Division (PCD1), which administers the Environmental Protection and Management Act (EPMA) and its Regulations to manage and control air, water and noise pollution, hazardous substances, and toxic industrial waste at industrial and trade premises. She leads the Jurong Island and Central catchments, ensuring that industrial and trade premises within these areas comply with the EPMA. Fareena will be pursuing a Master of Science in Data Science for Sustainability. This programme will equip her with the skills to address environmental challenges through data analytics and evidence-based solutions, while enhancing her expertise in emerging technologies and innovative approaches in both data science and environmental sustainability.
2	Wee Chao Beng, Eddy 	Master of Science in Environmental Management National University of Singapore	As Deputy Director in NEA's Sanitation and Compliance Division, Eddy works closely with his teams to review strategies and operational policies ensuring compliance in sanitation areas, including littering and smoking issues, while strengthening environmental hygiene compliance for aquatic facilities and aerosol-generating systems. By pursuing a Master of Science in Environmental Management, Eddy hopes to hone his skills in policy sense-making and operational implementation to benefit stakeholders and achieve desired outcomes, while addressing the ever-evolving public health challenges of the future.

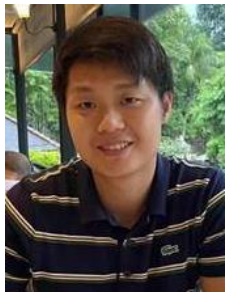
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3	Song Guozheng, Gregory 	Master of Science in Strategic Analysis and Innovation National University of Singapore	As Deputy Director of the Transformation Department (TD) at NEA, Gregory leads and oversees initiatives and workstreams to help the organisation address current and future challenges through process optimisation, organisational reviews, and digital transformation. His experience in business transformation has shown that innovation is often hindered by various other factors, and this insight drives his pursuit of a Master's degree to develop expertise in analysing macroeconomic factors, political considerations, organisational capabilities and global practices, which are all crucial elements for maximising the chances of successful innovation.
4	Kuan Wensheng, Raymond 	Master in Public Administration National University of Singapore	As Senior Assistant Director in NEA's Policy Planning Department 1, Raymond shapes and formulates environmental protection strategies and policies, collaborating with operational divisions to address emerging areas and long-term strategic priorities. The Master of Public Administration programme is an intensive, interdisciplinary course of study that will enhance Raymond's skills in policy analysis, public management and strategic decision-making. Through practical case studies, real-world insights and networking opportunities with diverse professionals and industry leaders, the programme will empower him to tackle complex environmental challenges and drive impactful change within NEA.
5	Lim Huimin, Vanessa	Master of Science in Climate Change	As Assistant Director of the International Affairs Branch at Meteorological Service Singapore (MSS) within NEA, Vanessa leads her team in managing MSS's international and regional partnerships, particularly with the World Meteorological Organization (WMO) and ASEAN. Her team spearheads regional cooperation initiatives to enhance meteorological and climate services across ASEAN member states.

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		University College London	Seeking to strengthen her expertise in climate science, Vanessa chose to pursue an MSc in Climate Change at UCL. This decision was driven by her commitment to contribute more meaningfully to Singapore's climate action initiatives. The programme's interdisciplinary approach offers her comprehensive insights into cutting-edge scientific developments and policy instruments needed to address both the escalating challenges and opportunities presented by the global climate crisis.
6	Diyar Mailepessov 	Doctorate of Philosophy in Medicine Nanyang Technological University	As Principal Analyst, Diyar helps analyse various types of data to support the Environmental Health Institute's work streams. His PhD thesis focuses on estimating the effectiveness of the Wolbachia programme in reducing dengue cases in Singapore through various statistical techniques. He and his team aim to investigate the impact of releases in both proximate and distant areas from release sites, considering factors such as human movement patterns. Diyar is pursuing his PhD in computational epidemiology at the LKC School of Medicine to enhance his understanding and skills in this field, enabling him to lead future projects more effectively.
7	Zhang Xiangbin 	Master of Science in Energy Systems National University of Singapore	As the Deputy Principal Engineer in the Waste Regulation Department, Xiangbin oversees the General Waste Disposal Facility (GWDF) licensing regime. His work encompasses three main areas: conducting comprehensive policy and legislative reviews of the licensing framework, evaluating and processing licensing applications and enforcing compliance with legislation and licensing conditions. With sustainability gaining increasing prominence both globally and locally, Xiangbin recognises the importance of deepening his knowledge in this field. He is particularly keen to expand his understanding of analysis and technologies relevant to green energy solutions.

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			This has led him to pursue a Master of Science in Energy Systems at the National University of Singapore. The programme offers an ideal blend of engineering principles and technology management, positioning him to contribute effectively to Singapore's energy development initiatives and address climate change challenges.
8	Quek Yong Seng 	Master of Science in Data Science for Sustainability National University of Singapore	As Principal Engineer, Yong Seng develops policies for the safe utilisation of recycled materials, including incineration bottom ash and mixed materials. His work involves collaborating with diverse stakeholders, from industry representatives and researchers to other government agencies, in cross-functional projects to develop sound, holistic policies and environmental standards. Through his work, Yong Seng has found that the ability to process environmental data and interpret it through appropriate statistical analysis is highly beneficial for effective policymaking.
9	Darryl Teo Say Poon 	Master of Science in Mechanical Engineering National University of Singapore	As the principal engineer from the NEA Verification Office (VO) under the Carbon Mitigation Division (CMD), which supports efforts to drive industrial energy efficiency, Darryl responsibilities include reviewing Energy Efficiency Opportunities Assessment (EEOA) reports and evaluating Resource Efficiency Grant (REG) proposals submitted by companies. He has decided to pursue a Master of Science in Mechanical Engineering to strengthen his technical competencies and enhance the value he brings to his work.

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10	Say Yueyang Symus 	International Master's Program in Nuclear Engineering and Management Tsinghua University	As the Executive Engineer in NEA's Radiation Protection and Nuclear Science Group (Nuclear Science and Technology Department, Regulation Division), Symus oversees the implementation of Singapore's obligations under various nuclear safety conventions and agreements with the International Atomic Energy Agency (IAEA). His responsibilities include strategising and planning engagements with international partners to enhance NEA's capabilities in nuclear safety, safeguards and security. This expertise supports the assessment of nuclear energy technologies, both for domestic consideration and for safeguarding Singapore's interests, particularly as several ASEAN countries explore nuclear energy options. The Master's Programme in Nuclear Engineering and Management will provide comprehensive professional education and research opportunities in nuclear science and engineering, nuclear fuel cycle and materials, and radiation and environmental protection. This course will strengthen his technical foundation, enabling more thorough assessment of nuclear energy technologies.

PUB, Singapore's National Water Agency

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1	Xie Nanzheng 	Masters of Information Management and Systems University of California, Berkeley	Nanzheng graduated from National University of Singapore (NUS) with a Bachelor of Engineering in Industrial and Systems Engineering and Management (ISEM). He began his career at PUB as an Engineer at the Changi Water Reclamation Plant, where he led a project utilising data analytics and programmable logics to automate and optimise sludge control, which resulted in significant operational cost savings. This earned him PUB's prestigious Innovation Gold Award and MSE's Innovation Award in 2023. Over his career in PUB, Nanzheng developed a strong interest in cybersecurity systems, leading to his transition to the Infotech & Digital Transformation Department as a Cybersecurity Analyst. This move aligned with PUB's transformation towards becoming a smart utility of the future. Nanzheng spearheaded the development of in-house systems to enhance the cyber posture of PUB's water infrastructure and operations and received MSE's Innovation Award and Public Service Transformation Award in 2025 for his commitment to innovation and excellence. Demonstrating his commitment to professional growth, Nanzheng independently pursued advanced cybersecurity courses and obtained various professional certifications. He will be pursuing his Masters degree at the University of California, Berkeley, where he plans to specialise in data science and information security. Nanzheng aims to use this opportunity to gain greater exposure to cutting-edge knowledge and global best practices in cybersecurity, strengthening PUB's digital infrastructure and cybersecurity capabilities to protect PUB's systems and infrastructure from external threats.

Singapore Food Agency

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1	Tan Si Tong 	Bachelor of Engineering in Chemical & Biomolecular Engineering with a Second Major in Food Science and Technology Nanyang Technological University	Current designation: Executive, Urban Food Solutions Division, Agri-tech & Food Innovation Department Si Tong is supporting Singapore's long-term food security by exploring creative solutions and technologies in addressing both upstream and downstream challenges in food production. To support her work, her course will equip her with a foundational technical understanding in systems thinking, process design, and analytical troubleshooting, which would enable her to reimagine solutions on how food can be produced sustainably in ways that addresses the unique challenges of a small, resource scarce nation like Singapore.
2	Goh Chern Hup Matthew 	Double Master's in Public Policy and International Political Economy Nanyang Technological University and	Current designation: Director, Licensing Division, Licensing Management & Development Department Matthew is involved in reviewing and formulating policy on the regulatory landscape for food establishments in Singapore, encompassing licensing, grading, and the critical enforcement of farm-to-fork food safety standards. The programme is set to significantly enhance his analytical skills, particularly concerning the intricate global dynamics that affect food supply resilience. This will equip him with key insights to tackle critical issues like geopolitical tensions, climate change, and supply chain complications, ultimately bolstering Singapore's food security.

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		University of Warwick	
3	Tan Xin Yi, Jolynn 	Master of Science in Business Analytics National University of Singapore	Current designation: Senior Manager, SFA Southwest Regional Office, Slaughterhouses Team Jolynn and her team conduct inspections at local slaughterhouses to ensure compliance with food safety regulations. Her studies will strengthen her with data analytics capabilities to enhance food safety and supply chain management by implementing data-driven approaches in risk assessment, emerging trends, resource planning, and policy formulation.