

Green Talents 2016

Australia

Brett HALLAM, Postdoctoral Fellow in Photovoltaic Engineering (31); Research Focus: advanced hydrogenation for silicon solar cells; UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA

The jury especially valued Hallam's personal and professional contribution towards an energy revolution evidenced in his high number of publications on this topic. The jury sensed his deep commitment to finding a global solution for clean electricity and efforts to reduce the potential impacts by climate change. The Scientific Forum will help him to gain more expertise and to be inspired by other researchers in his field.

Elizabeth LAW, PhD in Environmental Science and Applied Economics (33); Research Focus: understanding unavoidable trade-offs between environment, economics and ethics in bio-diverse production landscapes; THE UNIVERSITY OF QUEENSLAND, AUSTRALIA

The jury especially valued Law's scientific and personal activity, participating in numerous conferences and workshops, internationally and across disciplines. The jury believes that participating at the Green Talents forum will help her to renew and consolidate existing links with the German and European research community and to explore the options for a longer postdoctoral appointment.

Brazil

Hani ROCHA EL BIZRI, Master's Student in Health and Animal Production in the Amazon (28); Research Focus: achieving sustainable use of wildlife in the Amazon through innovative methods; UNIVERSIDADE FEDERAL RURAL DA AMAZONIA, BRAZIL

The jury was impressed by Rocha El Bizri's collaborative and voluntary work with the Amazonian villages. The forum will provide him with a great opportunity to represent Brazil as one of the premier young researchers on Amazonian hunting science.

Marina DEMARIA VENANCIO, Master's Student in Environmental Law (23); Research focus: climate change, agriculture and food systems in the Anthropocene; UNIVERSIDADE FEDERAL DE SANTA CATARINA, BRAZIL

The jury noted Venancio's strong research and publishing experience in climate change. They are sure that the Green Talents forum will strengthen her research, bringing new ideas and establishing valuable partnerships with likeminded professionals.

Canada

Darnel HARRIS, MA in Environmental Studies (28); Research focus: policies, procedures and designs to ensure that green infrastructure installations support goals of social equity and equal opportunity; YORK UNIVERSITY, CANADA

The jury praised his efforts to find the links between urban living, sustainability and transport methods. Harris wishes to use this award to mentor others involved in Green Talents in developing innovative and sustainable ideas.

China

Zhu LIU, PhD in Sustainability Science (30); Research focus: using carbon emissions as indicators in assessing global sustainability; California Institute of Technology, USA

The jury admired Liu's scope of research and his willingness to keep working on alternative methods for gathering carbon emissions data. Liu, after winning the award, is excited about the new cooperation opportunities offered by Green Talents.

Qianhong SHE, PhD in Environmental Engineering (32); Research focus: development of pressure retarded osmosis membrane technology for seawater desalination brine disposal and renewable osmotic energy recovery; NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

The jury was particularly impressed by the significant impact and contributions Qianhong made to his field of research, as indicated by the number of his publications and citations. Collaborating with international experts and building up professional networks with Green Talents will help him to reach his professional goal of becoming a highly acclaimed professor and scientist.

Columbia

Alejandra CARMONA, PhD in Water Resources Engineering, (32); Research Focus: climate change and climate variability in tropical South America; UNIVERSIDAD NACIONAL DE COLOMBIA/CONSTRUCTORA CONCRETO, COLOMBIA

The jury valued Carmona's outstanding enthusiasm and passion for both research and teaching. Being a Green Talents awardee will expand her horizons in an effort to accomplish her goals.

Carlos Andrés GARCÍA VELÁSQUEZ, Master's Student in Chemical Engineering (25, Colombia); Research Focus: hydrogen production using Colombian lignocellulosic biomass through gasification and dark fermentation and performing economic, energetic and environmental assessments; NATIONAL UNIVERSITY OF COLOMBIA AT MANIZALES, COLOMBIA

The jury was impressed by García Velásquez's application-oriented research on sustainable concepts for the energy supply in non-interconnected zones in Colombia. The jury also valued his commitment to finding a green solution to this important issue. The forum in Germany will provide him with deep insights into the field of sustainable development, as it is the ideal opportunity to meet and connect with likeminded professionals.

Czech Republic

Miroslav BRUMOVSKY, PhD Student in Environmental Chemistry (27); Research Focus: emerging contaminants in marine waters; MASARYK UNIVERSITY, CZECH REPUBLIC

The jury was impressed by Brumovsky's forward-thinking research approach and his plans for environmental protection, especially regarding the marine ecosystem. Taking part in the Green Talents forum will help him expand his knowledge, meet follow scientists and continue to progress his water research.

Ethiopia

Tegege WONDOWOSSEN, PhD Student in Climate Change and Tourism Development (31); Research Focus: understanding climate change and tourism nexus by investigating the possibility of tourism as a driver of climate compatible development using Ethiopia as a case study; GRIFFITH UNIVERSITY, AUSTRALIA

The jury especially valued Wondowossen's scientific and personal commitment to development and climate change issues. The jury believes that participating in the Green Talents forum will help him gain new insights into the complexity of the sustainability system and provide him with networking opportunities to connect with German institutions and experts in his field of research.

Philippines

Deo Florence ONDA, PhD in Oceanography (28); Research focus: marine microbial ecology, with emphasis on elucidating eukaryotic microbial diversity, biogeography and their potential roles in different ecological processes; UNIVERSITÉ LAVAL, CANADA

The jury highlighted Onda's strong research in the Arctic Ocean. His work to find sustainable alternatives for development in the area will help combat the major challenges of climate change.

Ghana

Abubakari AHMED, PhD Student in Sustainability Science (28); Research focus: the sustainability assessment of large-scale land acquisitions for biofuel in Ghana; UNIVERSITY OF TOKYO, JAPAN

The jury was impressed with Ahmed's development of an interdisciplinary methodological approach to his research. He has aptly chosen to study a relevant topic, which had previously not been explored enough for the sake of improving the lives of people living in West Africa.

India

Shamik CHOWDHURY, PhD Student in Environmental Engineering (29), Research Focus: green synthesis of 2D graphene nanosheets and their self-assembly into advanced 3D macrostructures for sustainable urban development, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

The jury was impressed by Chowdhury's innovative, cross-disciplinary approach to advancing sustainability in urban cities. The jury valued how the 3D GMs can offer competent solutions to problems of societal concern.

Ireland

Rachel KELLY, PhD Student in Marine Socio-Ecology (25), Research Focus: the social licence of marine resources, UNIVERSITY OF TASMANIA, AUSTRALIA

The jury was impressed by Kelly's novel, application-oriented approach, influencing the future theoretical understanding of social licence and citizen science. The knowledge gained through her research will have an impact on the sustainable management of marine fisheries. The Science Forum in Germany will provide Kelly with the opportunity to gain in-depth knowledge in her scientific field through research development, networking and peer-sharing experiences.

Israel

Emily ELHACHAM, MSc Student in Chemistry (25); Research focus: developing and using sensing technologies and systems, TEL AVIV UNIVERSITY, ISRAEL

The jury was impressed by Elhacham's work to find solutions to such a broad issue. Pollution affects all aspects of the environment, and her work is the key to finding ways to detect it early on.

Malaysia

Wai Fen YONG, Postdoctoral Fellow in Chemical and Biomolecular Engineering (34) Research Focus: developing sustainable materials and membrane technologies for biogas separation, industrial air purification, haze removal and air quality control, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

The jury was impressed not only with Yong's dedication to finding creative innovations for converting waste into biofuels in environmentally sustainable ways, but also with her willingness to be part of the implementation process at every step of the way.

Nepal

Yam P. SIWAKOTI, PhD in Power Electronics (37), Research Focus: application of power electronics for renewable and sustainable power generation and management, AALBORG UNIVERSITY, DENMARK

The jury was particularly impressed by the wide range of Dr Siwakoti's practical experience and believes that through Green Talents, he will get a chance to extend work in cooperation and collaboration with researchers and scientists from other disciplines in order to achieve his professional goals.

Pakistan

Wasif FAROOQ, Assistant Professor in Engineering and Environmental Technology (35); Research focus: the integration of micro-algal biotechnology with fossil fuel based power plants for improved CO₂ capture in biofuel production, NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, ZIMBABWE

The jury is enthusiastic about Farooq's contributions in helping Pakistan achieve its sustainable development goals. His innovations could significantly reduce greenhouse gas emissions on a national scale, and their implementation in the industrial sector will also stimulate economic growth.

Portugal

Ana Rita C. MORAIS, PhD Student in Sustainable Chemistry (27); Research focus: integration of green chemistry into the valorisation of biomass wastes and residues through the use of more sustainable technologies, LABORATÓRIO NACIONAL DE ENERGIA E GEOLOGIA, I. P., PORTUGAL UNIVERSIDADE NOVA DE LISBOA, PORTUGAL

The jury complimented Morais' passion for deep research towards the implementation of novel green and sustainable technologies in the biomass processing. Her participation in the science forum would be a remarkable phase in her academic career, and it would mark the beginning of a new professional juncture.

Singapore

James Guo Sheng MOO, PhD in Materials Chemistry (29); Research focus: nanorobotics for environmental monitoring and remediation, NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

The jury really valued Moo's efforts to understand the links between science and human society. His work in developing ways to improve people's lives and his willingness to train new generations will be an important contribution to the scientific community.

Spain

Jesús ESTEBAN, PhD in Chemical Engineering (31); Research focus: valorisation of renewable chemicals to obtain environmentally sustainable value-added products and discerning their physicochemical characterization, UNIVERSITY OF BIRMINGHAM, UNITED KINGDOM

The jury selected Esteban for the creative innovation behind his research in finding new and improved processes for the valorisation of the glycerol molecule. In doing so, he is helping to create a more environmentally sustainable and profitable biofuel industry.

Togo

Hèou Maléki BADJANA, Hydrologist and Research Associate (31), Research focus: Badjana's research is geared toward assessing hydro-climatic and land use changes in order to develop strategies that allow for more integrated land and water resource management, UNIVERSITY OF LOME, FACULTY OF SCIENCES, LABORATORY OF BOTANY AND PLANT ECOLOGY, TOGO

The jury favoured Badjana's work for his implementation of multidisciplinary methodological techniques. The result is a robust and comprehensive body of research on hydro-climate analysis and land use change in regions that have not been adequately investigated. They were happy with the emphasis he places on collaborating with locals and decision makers as part of his research.

Trinidad and Tobago

Melissa ATWELL, PhD Student in Environmental Science, Soil Science, Geography and Sustainable Natural Resource Management, Research Focus: sustainable management of soil's ecosystem services and its resilience in the face of increased population pressures and climate change, UNIVERSITY OF THE WEST INDIES, TRINIDAD AND TOBAGO

The jury was impressed by the global significance of Atwell's research. The jury also valued her outstanding academic record reflected by numerous scientific publications in international journals. The forum will give Atwell the opportunity to exchange ideas with likeminded professionals, receive constructive criticism and feedback and acquire more knowledge in her scientific field.

Zimbabwe

Musaida Mercy MANYUCHI, PhD in Chemical Engineering (33), Research focus: production of bio-coal for larger domestic purposes using an integrated process, CAPE PENINSULA UNIVERSITY OF TECHNOLOGY, SOUTH AFRICA

The jury was impressed by Dr Manyuchi's compromise with creating sustainable energy sources and by the scope of her work, which aims at effectively using all the products derived from the production of bio-coal as well as biogas from sewage sludge.