Outputs Arising from Dean's Research Fund

Seventh Round

Individual Research Scheme (IRS)	
Project Leader	Dr Sun Fenghua, HPE
Project Title (Ref No.)	The neurons mechanism behind performance of brief mindfulness intervention during half time break of simulative soccer competition. (IRS-2)
Output:	Journal/ book 1. Zhu, Y., Sun, F.*, Li, C., Huang, J., Hu, M., Wang, K., He, S., Wu, J., Acute effect of mindfulness-based intervention on athletes' cognitive function: – a fNIRS investigation / Journal of Exercise Science and Fitness (2022, Accepted but not yet published)
	Conference 1. 26th Annual Congress of the European College of Sport Science Title: Acute effect of brief mindfulness-based intervention on athletes' mood and salivary cortisol concentration
	External Grant 1. Health and Medical Research Fund Effects of Interrupting Sedentary Behaviours with High-Intensity Circuit Exercise on Vascular Endothelial Function and Executive Function among Young Adults: A Pilot Study (Date of application: 31 Mar 2022)
Project Leader	Dr Pei Qing, SSC
Project Title (Ref No.)	Climate change, epidemics, and famines in historical China during past 1000 years (IRS-3)
Output:	 Journal DAMETTE, O., GOUTTE, S. & PEI, Q. (2020). Climate and nomadic migration in a nonlinear world: evidence of the historical China. In: Climatic Change. 163, 4, p. 2055-2071 PEI, Q., ZHANG, D. D., FEI, J. & HUI, P. Y. (2020). Demographic Crises of Different Climate Phases in Preindustrial Northern Hemisphere. In: Human Ecology. 48, 5, p. 519-527 Conference The Past Global Changes (PAGES) Climate Reconstruction and Impacts from Archives of Societies (CRIAS) working group (Mar 2021)

Project Leader Project Title (Ref No.) Output:	Title: State of the Art of Historical Climatology in International Perspective Dr Yuen Man Wai, MIT On new analytical solutions and mathematical properties for high dimensional and multi-component Camassa-Holm systems (IRS-4) Journal/ book 1. Jiang, Z.W., Yuen, M.W., & Zhang, L. (2023). The Generalized Peakon Solution for the Rotation-two-component Camassa-Holm System, International Journal of Modern Physics B, 37, 2350017(12)
	Pages) 2. Geng, J., Hu, K., Lai, N. A. * & Yuen, M. W., Nonexistence for the compressible Euler equations with space dependent damping in 3-D (Under Review)
Project Leader	Dr Zhang Qiaoping, MIT
Project Title (Ref No.)	An Exploratory Study of Secondary Mathematics Teachers' Conceptions
	of STEM Education in Hong Kong and Taiwan (IRS-5)
Output:	Journal/ book 1. Zhang, Q. P., Zhang, X. L., & Liu, J. B., A Holistic Review of Authentic Assessment in Mathematics Education/ Authentic Assessment and Evaluation Approaches and Practices in a Digital Era: A Kaleidoscope of Perspectives (2021) 2. 張僑平: 新學制推行以來香港數學教育的發展與挑戰/課程研究 (2021) 3. 張僑平和陳慕丹:基於電腦的數學評價: PISA2021 數學素養 測評的啟示《教學月刊》(小學版) (2021) 4. 慈艷和張僑平:做中學、學中思:在數學實踐活動中激發學生的數學思考《小學教學》(數學版) (2021) 5. 張僑平*、周詠南、陳美莉和麥巧玲:基於數學課題的 STEM 教學活動設計:以認識立體圖形為例/數數學教育 (2021) 6. Zhang Q. P.*, Sze, N. L., & Chia, H. M., Secondary school students' perceptions of STEM subjects and career interest: An exploratory study in Hong Kong/Educational Studies (Under Review) 7. Zhang, Q. P. & Yang, K. L, Mathematics teachers' conceptions of STEM education and STEM integration: A phenomenographic appoach/IJSME (Under Review) 8. 張僑平*、周詠南、陳美莉、麥巧玲,基於數學課題的 STEM 教學活動設計:以認識立體圖形為例/數學教育,44期,頁 3-17 9. Zhang Q. P. *, Chia, H. M., & Chen, K. X., Examining students' perceptions of STEM subjects and career interests: An exploratory

	atudy among googledow atudanta in Hana V and (V.1.22 (2)
	study among secondary students in Hong Kong/Vol 33 (2)
	10. Zhang, Q. P., Yang, K. L. *, & He, X. B., Mathematics Teachers'
	Conceptions of STEM Education: A Comparative Study in Hong
	Kong and Taiwan
	Conference
	Proceedings of the 44th Conference of the International Group for the Psychology of Mathematics Education
	Title: Rethinking authentic assessment in mathematics education: A
	holistic review
	The 14th International Conference on Technology and Mathematics Education (ICTME)
	Title: When math meets STEM: Where do math teachers stand?
	3. The 7th STEM in Education Conference: STEM future-expanding our
	horizons
	Title: Hong Kong Mathematics teachers' perceptions of STEM
	integration: An exploratory study
	External Grant
	1. ECS
	Shaping students' lived space of mathematics learning: How
	mathematics teachers' beliefs and values affect their teaching (Date of
	application: Sept 2020)
Project Leader	Dr Au Ka Man, SES
Project Title (Ref No.)	Design and synthesis of novel metal-organic gels (IRS-6)
Output:	Journal/ book
	1. Au, K.M, Recent Advances in the Use of Metal-Organic Frameworks
	for Dye Adsorption, Frontiers in Chemistry 2020,8,708 (2021)
	2. Au, K.M, S. Y. Kwan, M. N. Lai & K. H. Low, Dual-Functional
	Mesoporous Copper(II) Metal-Organic Frameworks for the
	Remediation of Organic Dyes. Chemistry - A European Journal
	2021,27,9174 (2021)
	Conference
	1. ACS Spring 2021 – Macromolecular Chemistry – The Second
	Century
	Title: Dual-Functional Copper Metal-Organic Framework s for Dye
	Removal
	I I
	2. ACS Publications Symposium – The Power of Chemical

	Title: Photocatalytic Degradation of Tartrazine with a Copper)II)
	Metal-Organic Framework
	External Grant
	1. GRF
	Design and synthesis of luminescent MOF-gel composites with
	hierarchical porosity (Date of application: Nov 2021)
Project Leader	Prof Chow Cheuk Fai Stephen, SES
Project Title (Ref No.)	Design and Development Smart Latent Catalytic Systems. (IRS-8)
, , ,	Journal/ book
Output:	
	1. Zheng, A., Cheng, B. G.* & Chow, C. F.*, Selective detection for
	methomyl pesticide via catalytic chemosensing ass Chemistry, A
	European Journal, 26, 63, p.14461-14466 (2020)
	External Grant
	1. GRF
	Synthesis and Catalytic Halopgenation Studies of High-Valent
	Iron(IV/V)-oxo-halide Complexes (Date of application: Nov 2020)
Project Leader	Dr Deng Wenjing, SES
Project Title (Ref No.)	Children's non-dietary exposure to emerging flame retardants via school
	and household indoor dust intake (IRS-9)
	T 1/1 1
Output:	Journal/ book
Output:	Journal/ book 1. Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental
Output:	
Output:	1. Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental
Output:	1. Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment
Output:	1. Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety
Output:	1. Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021)
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*,
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children,
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong.
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021)
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl Substances in the Urine and Hair of Preschool Children, Airborne
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl Substances in the Urine and Hair of Preschool Children, Airborne Particles in Kindergartens, and Drinking Water in Hong Kong.
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl Substances in the Urine and Hair of Preschool Children, Airborne Particles in Kindergartens, and Drinking Water in Hong Kong. Environmental Pollution 270, 116219 (2021)
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl Substances in the Urine and Hair of Preschool Children, Airborne Particles in Kindergartens, and Drinking Water in Hong Kong. Environmental Pollution 270, 116219 (2021) LIU, J., HU, L.X., DENG, W.J., YING, G.G., HONG, H.C., TSANG,
Output:	 Hu, L. X., Deng W. J.*, Ying, G. G.& Hong, H. C., Environmental perspective of COVID-19: atmospheric and wastewater environment in relation to pandemic. Ecotoxicology and Environmental Safety 219, 112297. (2021) Li, N., Ying, G. G., Hong, H. C., Tsang, E. P. K. & Deng, W. J.*, Plasticizer contamination in the urine and hair of preschool children, airborne particles in kindergartens, and drinking water in Hong Kong. Environmental Pollution 271, 116394. (2021) Li, N., Ying, G. G., Hong H.C.& Deng W. J.* Perfluoroalkyl Substances in the Urine and Hair of Preschool Children, Airborne Particles in Kindergartens, and Drinking Water in Hong Kong. Environmental Pollution 270, 116219 (2021) LIU, J., HU, L.X., DENG, W.J., YING, G.G., HONG, H.C., TSANG, P.K., BARCELÓ, D., Disinfection Byproducts in natural water in

	July 2022
	External Grant
	1. UGC GRF
	Does dietary intake of veterinary antibiotics affect intestinal
	microflora and pose a health risk on children (Date of application:
	Nov 2020)
Project Leader	Dr Li Wai Chin, SES
Project Title (Ref No.)	Do root apoplastic barriers hinder cadmium (Cd) transfer from soil to
	rice? (IRS-10)
Output:	Journal/ book
	1. Xiao, A., Chen, D., Li, W. C., & Ye, Z, Root Morphology and
	Anatomy Affect Cadmium Translocation and Accumulation in Rice.
	Rice Science, Vol 28. (2021)
	2. ROKONUZZAMAN, M., LI, W. C., MAN, Y. B., TSANG, Y. F. &
	YE, Z., Arsenic accumulation in rice: Sources, human health impact
	and probable mitigation approaches, Rice Science. 29(4): 309-327
	External Grant
	1. GRF
	The mechanism of arsenic and antimony mineralization and its
	application in soil remediation at antimony smelting contaminated
	(Date of application: Sept 2021)
Project Leader	Dr Man Yu Bon, SES
Project Title (Ref No.)	Spent Coffee ground-based biochar-supplemented fish feed for lowering
	uptake of perfluorooctanoic acid and perfluorooctanesulfonic acid by
	grass carp (IRS-11)
Output:	Journal/ book
	1. Man, Y. B., Zhang, F. Ma, K. L., Mo, W. Y. Kwan, H. S., Chow, K. L.,
	Man, K. Y., Tsang, Y. F., Li, W. C. & Wong, M. H.*. Growth and
	intestinal microbiota of Sabah giant grouper reared on food waste-
	based pellets supplemented with spirulina as a growth promoter and
	alternative protein source, Aquaculture Reports, 18, 100553 (2020)
	2. Man, Y, B., Lee, T. M., Hossain, MD. F., Tsang, Y. F., Wong, C. F.,
	Chow, K. L. *, Food waste and single-cell proteins. In Food Waste as
	a Resource: Food, Feed Fertilizer, Fuel. World Scientific Publishing
	Co (The book chapter will be published on January 2023)
	External Grant

	 GRF Coffee grounds-biochar as feed supplements, to reduce residues of antibiotic s and spread of antibiotic resistance genes in fish (Date of application: Nov 2020) GRF Activated carbon made from rice husks and coconut shells as feed supplement for reducing uptake of metal/loids, PAHs and PCBs by Nile tilapia.
Project Leader	Dr Tsang Yiu Fai, SES
Project Title (Ref No.)	Synergistic Mechanisms between Autotrophs and Heterotrophs in CO ₂ Fixation using Non-photosynthetic Microbial Community (NPMC) and NPMC Structure Modification (IRS-12)
Output:	 Journal/ book Cho, S. H., Jung, S., Park, Y. K., Lin, K. Y. A., Chen, W. H., Tsang, Y. F.* & Kwon, E. E. *, Biofuel Production as an Example of Virtuous Valorization of Swine Manure. ACS Sustainable Chemistry & Engineering, 9, 13761-13772, [Cover story] (2021) Khan, M. T., Hossain, M. F., Man, Y. B., Wong, M. H., Kim, K. H. * & Tsang, Y. F.*, Removal of Microplastics in conventional and advanced wastewater treatment technologies: Challenges, and opportunities, Journal of Environment Management (2022 Major Revision) Man, Y. B., Lee, T. M., Hossain, M. F., Tsang, Y. F., Wong, C. F. & Chow, K. L.*, Food Waste and Single-cell Proteins. In Wong, M. H., Purchase, D & Dickson, N. (Eds.), Food Waste as a Resource: Food, Feed, Fertilizer, and Fuel, London, UK: World Scientific (in press) (2022 Book Chapter) External Grant GRF Inhibitory and Synergistic Effects of Microfibres and Microplastics and Biological Wastewater and Sludge Treatment and Their Mechanisms (Date of application: November 2020)

Project Leader	Dr Cheng Kwok Shing Gary, MIT
-	1
Project Title (Ref No.)	Facilitating Theme-based Vocabulary Learning by Neural Topic Madeling by Read on Completely Bruden Marriage (IDS 2)
	Modeling based on Completely Random Measures (IDS-2)
Output:	Journal/book
	1. Chen, X., Zou, D., Xie, H., & Cheng, G., Twenty Years of
	Personalized Language Learning: Topic Modeling and Knowledge
	Mapping. Educational Technology & Society, 24(1), 205-222. (2021)
	2. Chen, X., Xie, H., Li, Z., & Cheng, G., Topic Analysis and
	Development in Knowledge Graph Research - A Bibliometric Review
	on Three Decades. Neurocomputing. DOI:
	10.1016/j.neucom.2021.02.098. (2021)
	3. Trends, Research Issues and Applications of Artificial Intelligence in
	Language Education. Educational Technology & Society , 26(1): 112-
	131, https://www.j-ets.net/collection/forthcoming-
	articles/26_1#h.p0122f3fwnvt
	Conference
	The 58th Annual Meeting of the Association for Computational
	Linguistics (ACL 2020)
	Title: Neural Mixed Counting Models for Dispersed Topic Discovery
	2. The 5th International Symposium on User Modeling and Language
	Learning (UMLL 2021)
	Title: Investigating the Impact of Teacher Feedback on Content
	Revisions in EFL Students' Writing by Automated Tracking Approach
	External Grant
	1. GRF
	Automated Feedback for Elucidating Coherent Text – The AFFECT
	Project (Date of application: Nov 2020)
	2. GRF
	Towards automatic analysis of student behaviour and work to
	facilitate self-regulated learning in computer programming (Principal
	Investigator: Dr Cheng Kwok Shing Gary) (Date of application: Nov
	2021)
Project Leader	Dr Song Yanjie, MIT
Project Title (Ref No.)	Enhancing primary students' collaborative science inquiry through meta-
110,000 1100 (100,110.)	cognitive scaffolding in a mobile learning environment (IDS-3)
Output:	Journal/ book
	1. Song, Y., Yang, Y., Cao, J., Loo, C. K. (2022). Mapping primary

	students' mobile collaborative inquiry-based learning behaviours in science collaborative problem solving via learning analytics.
	International Journal of Educational Research. 114, 101992.
	memananan de aman er Bautanenan reesearen 11 i, 1017/2
	Conference
	1. The 26th Global Chinese Conference on Computers in Education
	(GCCCE 2022) (June/2022/online)
	Title: Enhancing primary students' collaborative problem-solving
	skills via a metacognitive scaffold embedded in a mobile app
Project Leader	Prof Ho Wing Kei, SES
Project Title (Ref No.)	Novel sulphur vacancies rich transition metal sulphide based
	photocatalysis for environmental purification (IDS-4)
Output:	Journal/ book
	1. Di, T., Xu, Q., Ho, W. K., Tang, H., Xiang, Q. & Yu, J. (2019).
	Review on Metal Sulphide-based Z-scheme Photocatalysts,
	ChemCatChem, 11, 1394-1411
	2. Ge, H., Xu, F., Cheng, B., Yu, J. & Ho, W. K. (2019). S-Scheme
	Heterojunction TiO2/CdS Nanocomposite Nanofiber as H2-
	Production Photocatalyst, ChemCatChem, 11 (24), 6301.
	3. Di, T., Cheng, B., Ho, W. K., Yu. J. & Tang, H. (2019). Hierarchically
	CdS-Ag2S nanocomposites for efficient photocatalytic H2
	production. Applied Surface Science, 170, 196-204.
	4. Zhao, Y., Zhao, X., Lang, Z., Sun, H., Du, Z., Tan, H., Qiu, T., Ho, W.
	K., Zhao, Z., & Wang, Y. (2020). Reasonable design of Cu2MoS4
	heterophase junction for highly efficient photocatalysis. Journal of
	Alloys and Compounds, 826,154076.
Project Leader	Dr Chow Sin Yin Alice, SSC
Project Title (Ref No.)	Assessing willingness-to-pay for voluntary carbon offsets among the
	Greater Bay Area's air travelers: A comparison of hypothetical and non-
	hypothetical estimations (IDS-5)
Output:	Journal/ book
	1. Chow, A. S.Y., Lo, A.Y., Cheung, LTO, Fok. L.
	To be submitted to Journal of Environmental Planning and
	Management, Journal of Sustainable Tourism, or Journal of Transport
	Geography. (Under preparation)
	External Grant
	1. GRF
	Willingness-to-pay for China's domestic carbon credits to offset air

	travel carbon emissions: is it a political choice or an environmental choice? (Date of application: Nov 2020)
Project Leader	Prof So Wing Mui Winnie, SES
Project Title (Ref No.)	Science, Technology, Engineering and Mathematics (STEM) Education:
	Giving Voice to Teachers on notion of integration (IDS-6)
Output:	Journal/ book
	1. Chen, Y., Li, W. C., Chiu, W. K. S. & So, W. M. W., Elementary
	Teachers' Perceptions of STEM Integration in Schools: a cluster
	analysis (Under preparation)
	External Grant
	1. PPR
	Professionals' Perspectives on Competences and Contexts for STEM
	Education Enhancing Policy for Innovation and Technology (I&T)
	Development in Hong Kong (Date of application: July 2020)

Project Leader	Dr Pei Qing, SSC
Project Title (Ref No.)	The Strange Flight of the Peacock: Farmers' Atypical Northwesterly
	Migration from Central China, 200BC-1400AD (ROP-4)
Output:	Journal/ book
	 Pei, Q., Division of Hunan and Hubei Provinces in the Qing Dynasty: Pragmatism in the unity of heaven and governance. The Professional Geographer, 72(2): 283-296 (2020) Pei, Q., G. Li, B. Winterhalder, M. Lowman, Regional patterns of pastoralist migrations under the push of reduced precipitation in imperial China. Global Ecology and Biogeography, 29(3): 433-443 (2020) Pei, Q., D. D. Zhang, J. Fei & P. Y. Hui, Demographic crises of different climate phases in preindustrial Northern Hemisphere. Human Ecology, 48: 519-527 (2020) D. D. Zhang, Pei, Q., H. F. Lee, Jim, C. Y., Li, G., Zhang, M., Wu, Z., Wang, L., Yue, R. P. H. & Zhang, S., Climate change fostered cultural dynamics of human resilience in Europe in the past 2500 years. Science of the Total Environment, 744: 140842 (2020) O. Damette, S. Goutte & Pei, Q *. Climate and Nomadic Migration in a Nonlinear World: Evidence of the Historical China. Climate Change, 163: 2055-2071 (2020) D. Degroot, K. Anchukaitis, M. Bauch, Jakob Burnham, F. Carnegy, J. Cui, K. de Luna, P. Guzowski, G. Hambrecht, H. Huhtamaa, A.
	Izdebski, K. Kleemann, E. Moesswilde, N. Neupane, T. Newfield, Q. Pei, E. Xoplaki & N. Zappia, Towards a rigorous understanding of
	societal responses to climate change. Nature, 591: 539-550 (2021) External Grant
	1. UGC GRF
	Climate change and Agrarian -nomadic Migration across the Great Wall during Little Ice Age (Date of application: June 2021)