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Remote opportunities for scholars in Ukraine

Chhugani, Karishma; Frolova, Alina; Salyha, Yuriy; Fiscutean, Andrada; Zlenko, Oksana; Reinsone, Sanita; Wolfsberger, Walter W.; Ivashchenko, Oleksandra V.; Maci, Megi; Dziuba, Dmytro

Published in:
 Science

DOI:
[10.1126/science.adg0797](https://doi.org/10.1126/science.adg0797)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
 Publisher's PDF, also known as Version of record

Publication date:
 2022

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Chhugani, K., Frolova, A., Salyha, Y., Fiscutean, A., Zlenko, O., Reinsone, S., Wolfsberger, W. W., Ivashchenko, O. V., Maci, M., Dziuba, D., Parkhomenko, A., Bortz, E., Kondrashov, F., Łabaj, P. P., Romero, V., Hlávka, J., Oleksyk, T. K., & Mangul, S. (2022). Remote opportunities for scholars in Ukraine. *Science*, 378(6626), 1285-1286. <https://doi.org/10.1126/science.adg0797>

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Published online 20 December 2022
10.1126/science.adg2821

Accessing the Loss and Damage climate fund

The 2022 United Nations Climate Change Conference, or Conference of the Parties (COP27), held in Sharm el-Sheikh, Egypt, in November, produced a long-awaited agreement to set up a global “Loss and Damage” fund (1). Under negotiation since the early 1990s, the fund’s primary purpose is to provide financial assistance to developing countries that are vulnerable to and suffering from the adverse effects of climate change (2), such as the destruction of physical and social infrastructure. The new funding arrangements will “focus on addressing loss and damage by providing and assisting in mobilizing new and additional resources” (2). Now that a decision to establish the fund has been made, the question of how vulnerable groups can access the money must be addressed.

People who live in developing countries, many of whom are already climate refugees (3), are particularly vulnerable to climate change (4). Those who live below the poverty line often reside in precarious housing,

haphazard settlements, underserved neighborhoods, and environmentally hazardous locations, such as steep slopes, riverbanks, and low-lying areas. These populations suffer disproportionately relative to more affluent communities from extreme weather events, such as tropical cyclones, fluvial floods, and landslides (4). For example, the 2022 flood in Pakistan caused damages and economic losses of about US\$30 billion (5). In addition, people in developing countries are affected by slow-onset processes, such as sea level rise (4), and noneconomic losses and damages, such as loss of territory, cultural heritage, sense of place, and Indigenous knowledge (6).

The transitional committee responsible for the operationalization of the new funding arrangements (2) must assure that the most vulnerable and affected groups can access this critical financial support. The deliberations ought to focus on making financing inclusive. Flexible finance governance architecture, such as a database tracking social protection of vulnerable populations in each country, could mitigate inequalities. Proactive measures could ensure that the money reaches even those communities who lack internet connections and the expertise required to make requests. For example, social security numbers, bank accounts, and smart (mobile) technologies could be linked to enable direct benefit transfers, similar to the system used in India to provide support during the COVID-19 pandemic (7). Contingency funds should be

established to provide rapid financial support to the affected groups in the immediate aftermath of future disasters. The Loss and Damage fund should also include long-term financing to support alternative, climate-resilient livelihoods. This provision could help address financing gaps in the case of slow-onset events and noneconomic losses. The litmus test for a fair and just Loss and Damage fund will be whether it serves those who need it the most.

Bharat Dahiya^{1*} and Mahesti Okitasari²

¹School of Global Studies, Thammasat University, Rangsit, Pathum Thani, Thailand. ²United Nations University Institute for the Advanced Study of Sustainability, Shibuya, Tokyo, Japan.

*Corresponding author. Email: bharat@sgs.tu.ac.th

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10.1126/science.adf9670

Remote opportunities for scholars in Ukraine

Russia’s unprovoked attack on Ukraine has destroyed civilian infrastructure, including universities, research centers, and other academic infrastructure (1). Many Ukrainian scholars and researchers remain in Ukraine, and their work has suffered from major setbacks (2–4). We call on international scientists and institutions to support them.

The global research community has offered research opportunities and



A new fund will support impoverished communities vulnerable to climate change, such as this one in Jakarta.

PHOTO: BAY ISMOYO/STRINGER/GETTY IMAGES

INSIGHTS



Russian shelling damaged this Kharkiv National University building in March 2022. As Russia's invasion continues, scientists who remain in Ukraine would benefit from international support and remote opportunities.

fellowships to Ukrainian academic faculty and students who were forced to leave the country due to the war (5, 6). Science diplomacy (7) has resulted in opportunities like the Polish Academy of Sciences Scientists and Engineers in Exile or Displaced (PAS-NAS SEED) initiative, which helps to place Ukrainian researchers in an institute of the Polish academy and supplies grants that provide up to 6 months of support (8). The Institute for International Education (IIE) emergency student fund provides financial support to Ukrainian students studying at US colleges and universities (9). The Resources to Help Displaced Scholars from Ukraine program mobilizes short-term stipends in support of displaced Ukrainian scholars.

Despite the success of those initiatives, little support has been made available to scientists who have not left the country. Men between the ages of 18 and 60 are not allowed to leave the country under martial law (10). Many scholars, both male and female, have volunteered to fight on the front lines. Others have families to take care of and are not willing to leave them behind (11).

Supporting the researchers who remain in Ukraine through short-term and long-term opportunities can help the current situation and prevent a potential disconnect with the global research community that could lead to lost opportunity for a generation. Remote opportunities are especially

important, but they need to come in tandem with proper training on state-of-the-art skills including coding, data analytics, and scientific writing. Computational data-driven fields are particularly suitable to remote work, but other fields could also participate through collaboration, training, and data sharing. The beneficiaries of these opportunities will be able to increase their international collaborations and research output and facilitate the postwar recovery. Institutions across the world should fund training initiatives for scientists in Ukraine.

Engaging Ukrainian scholars and students in scientific conferences is another remote opportunity. Many conferences are now hosted in a hybrid format, allowing in-person as well as remote attendance (12). Organizations that hold scientific conferences could waive fees for scientists located in Ukraine to participate virtually. Scientific societies can also help by waiving the registration fees for Ukrainians, allowing them to participate in international scientific life without leaving the country.

Supporting and engaging Ukrainian scholars remaining in the country could have benefits that span generations. Making remote opportunities available will strengthen the Ukraine's scientific landscape and expedite the postwar reconstruction of the country.

Karishma Chhugani¹, Alina Frolova^{2,3}, Yuriy Salyha⁴, Andrada Fiscutean⁵, Oksana Zlenko⁶, Sanita Reinson⁷, Walter W. Wolfsberger⁸,

Oleksandra V. Ivashchenko⁹, Megi Maci¹⁰, Dmytro Dziuba¹¹, Andrii Parkhomenko¹², Eric Bortz¹³, Fyodor Kondrashov¹⁴, Pawel P. Łabaj¹⁵, Veronika Romero¹⁶, Jakub Hlávka¹⁷, Taras K. Oleksyk^{18,19*}, Sergei Mangul^{1,20}

¹Department of Clinical Pharmacy, University of Southern California Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences, Los Angeles, CA 90089, USA. ²Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Kyiv, Ukraine. ³Kyiv Academic University, Kyiv, Ukraine. ⁴Institute of Animal Biology NAAS, 79034 Lviv, Ukraine. ⁵Faculty of Journalism and Communication Studies, University of Bucharest, Bucharest, Romania. ⁶National Scientific Center, "Institute of Experimental and Clinical Veterinary Medicine," Kharkiv, Ukraine. ⁷Institute of Literature, Folklore, and Art, University of Latvia, Riga LV-1004, Latvia. ⁸Department of Biological Sciences, Oakland University, Rochester, MI 48309-4479, USA. ⁹Medical Imaging Center, University Medical Center Groningen, 9713GZ Groningen, Netherlands. ¹⁰Stritch School of Medicine, Loyola University Chicago, Maywood, IL 60153, USA. ¹¹Department of Anesthesiology and Intensive Care, P.L. Shupyk National Healthcare University, Kyiv, Ukraine. ¹²Department of Finance and Business Economics, Marshall School of Business, University of Southern California, Los Angeles, CA 90089, USA. ¹³Department of Biological Sciences, University of Alaska Anchorage, Anchorage, AK 99508, USA. ¹⁴Institute of Science and Technology Austria, 3400 Klosterneuburg, Austria. ¹⁵Matopolska Centre of Biotechnology, Jagiellonian University, Kraków, Poland. ¹⁶Department of Neurobiology, University of Utah, Salt Lake City, UT 84112, USA. ¹⁷Price School of Public Policy, University of Southern California, Los Angeles, CA 90089-3333, USA. ¹⁸Department of Biological Sciences, Oakland University, Rochester, MI 48309-4479, USA. ¹⁹Department of Biology, Uzhhorod National University, 88000 Uzhhorod, Ukraine. ²⁰Department of Quantitative and Computational Biology, University of Southern California Dornsife College of Letters, Arts, and Sciences, Los Angeles, CA 90089, USA. *Corresponding author. Email: oleksyk@oakland.edu

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