

Tips dan Trik dalam Peraihan Riset Kompetitif Internasional

Prof. Dr.rer.pol. Heri Kuswanto, M.Si.
Laboratorium Statistika Komputasi dan Sains Data
Departemen Statistika-ITS

Pusat Studi Mitigasi Bencana dan perubahan Iklim-ITS



Riwayat Penelitian Dana Internasional

1. Investigating the impact of Solar Geoengineering on Hydro-climatic Extremes in Southeast Asia. Decimals Continuation Grant funded by The World Academy of Science (TWAS) and UNESCO (2021-2023). Collaborator : Prof. John Moore from Beijing Normal University and Ben Kravits from Indiana University-US, Meu-Leoung Tan (USM), Hong-Do (Vietnam) (550jt)
2. Understanding the Impact of Solar Geoengineering on Extreme Temperatures and Precipitation Changes Over Tropical Regions: Case Study of Indonesia. Funded by The World Academy of Science (TWAS) and UNESCO. (2019-2020). Collaborator : Prof. John Moore from Beijing Normal University and Ben Kravits from US. (850jt)
3. Strengthening Resilience to Extreme Weather Related Events in Indonesia through improving the predictability of drought risk within Drought Cycle Management Model. In collaboration with Prof. Justin Sheffield (Princeton University and Dr. Amir Aghakouchak (University of California, Irvine). Funded by NSF USA through the PEER Research Grant, 2017-2019 (2.3M)
4. Development of high resolution composite maps as a forecasting tool to predict extreme weather in Indonesia. Funded by ITSF Indonesia-Toray Foundation Japan. 2016. Science and Technology Research Grant (STRG)
5. Exploring the dynamic of extreme weather events in Indonesia using large scale meteorological pattern as the forecast guidance (pilot study: Indramayu, West Java). Collaboration with Prof. Richard Grotjahn, UC Davis-USA. Funded by PEER Research Grant NSF-USAID 2013 – 2015. (3.4M)
6. Development and calibration of weather ensemble forecasts by time series model based as an alternative of numerical weather prediction's ensemble. Funded by: Indonesia Toray Science Foundation Japan (ITSF). 2011.

Mengapa hibah internasional?

- Kesempatan menambah network Internasional
- Kesempatan melakukan riset di universitas mitra (top dunia)
- Publikasi yang berdampak
-



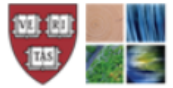
Workshop di TWAS, Italy



Harvard Research Residency Program

Visit ke UC Irvine, USA





Heri Kuswanto



Dr. Heri Kuswanto is an Associate Professor at the Department of Statistics-Institut Teknologi Sepuluh Nopember (ITS) Indonesia. Dr. Heri's research is focused on extreme events (weather and climate) and climate modelling, in particular of heavy precipitation and drought related issues. He is also an expert on data analysis, econometrics time series and machine learning. Since 2017, Dr. Heri has been appointed as the Vice Head of the Association of Indonesian Expert on Disaster (IABI)- East Java Chapter, Indonesia. He is currently also the coordinator of Climate Change Working Group at the Center for Earth, Disaster and Climate Change (ITS). Dr. Heri has been the lead PI for many projects funded by international donors including

DECIMALS Project funded by The World Academy of Science (TWAS)-SRMGI and Partnerships for Enhanced

ng.environment.harvard.edu/publication in Research (PEER) Project funded by USAID and National Academy of Science (NAS), USA. Dr. Heri has also

Perbedaan pendanaan DN dengan LN



1. Format proposal mengikuti templete terstruktur
2. Call proposal mengikuti tahun anggaran
3. Penggunaan anggaran strict → SPJ
4. Output publikasi harus ada setiap tahun
5.

1. Format proposal customize
2. Call proposal berbeda-beda
3. Penggunaan anggaran fleksible → hanya perlu melaporkan list penggunaan dana
4. Output publikasi tidak harus ada setiap tahun
5.

Kiat mendapatkan hibah penelitian luar negeri



Bagaimana kita bisa tahu informasi tentang pendanaan penelitian?

1. Pendanaan dalam negeri (kementrian) biasanya di share lewat website dan ada surat resmi ke institusi (Perguruan Tinggi)
2. Bagaimana dengan pendanaan luar negeri??
 - ☐ Kadang info ada di institusi kadang tidak → **seringnya tidak!!!**
 - ☐ Harus rajin-rajin googling
misal keyword “**call for research proposal developing countries**”,
“**call for research proposal on artificial intelligence**”, dsb.
 - ☐ Sesuaikan dengan kemampuan kita



call for proposal climate developing countries

Setelah mendapatkan info, kemudian apa?

1. Baca petunjuk proposal baik-baik:

- ☐ Kesesuaian topik/ tema
- ☐ Template proposal
- ☐ Detail persyaratan administrasi yang lain
- ☐ Dana yang diajukan
- ☐ Submission deadline

2. Action → Berat? Iya...apalagi penelitian internasional

Catatan : banyak penelitian internasional yang scope tema-nya inter/ multidisiplin



A template for a project proposal. It features a yellow header with the title 'PROJECT PROPOSAL' and the author's name 'James Kennedy', date 'November 25, 2019', and course 'BUS-MATH'. The main body is white with a black border. It contains sections for 'PROJECT TITLE', 'DESCRIPTION', 'OBJECTIVE', 'OPPORTUNITY', and 'SOLUTION', each with a brief description of the project.

PROJECT PROPOSAL James Kennedy
November 25, 2019
BUS-MATH

PROJECT TITLE
Website Development Projects for Flight Magazine

DESCRIPTION
Flight Magazine is in need of an e-commerce enabled web site to sell magazine subscriptions, videos and clothing to members of the hydrofoil community. Flight also needs a separate web site intimately connected to the magazine site for the Flight Hydrofoil World Championships, which is held every two years. Flight also needs a large amount of imagery from the sport of hydrofoiling and updated content from future events.

OBJECTIVE
Flight needs two web sites to promote both the magazine and sponsored events.
An Internet Presence: Flight Magazine needs an e-commerce web site.
Event Promotion: Flight Worlds needs a web site to promote the events.
Cost effective: Flight needs a professional and affordable solution.

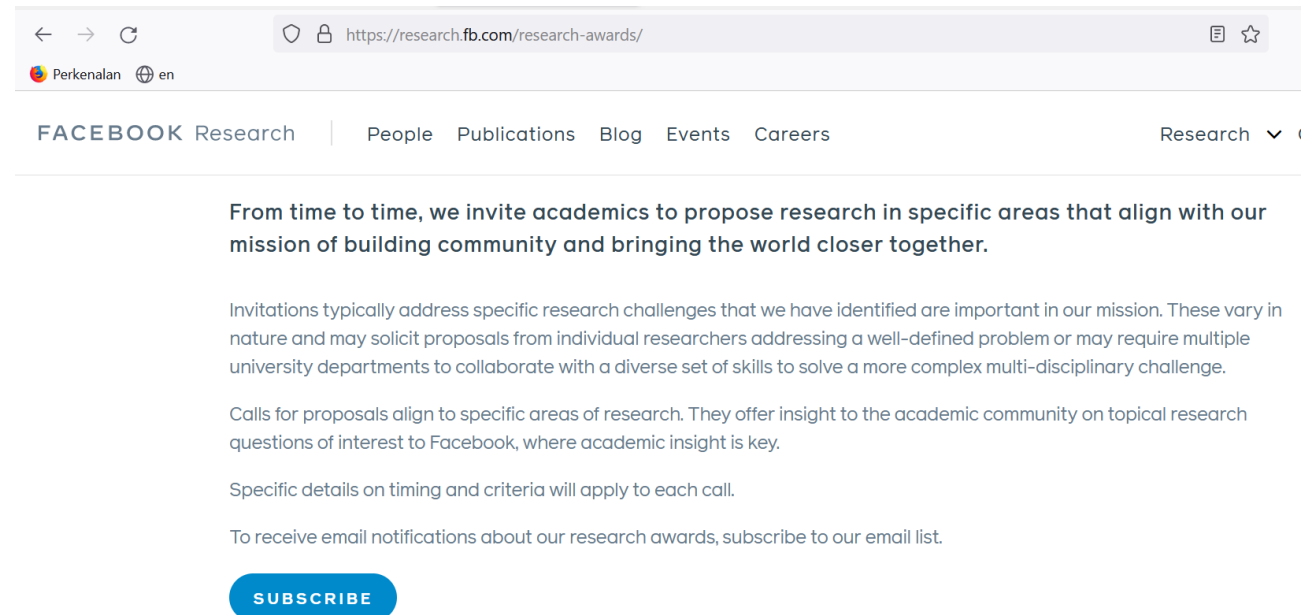
OPPORTUNITY
Flight has the opportunity to work with Cyber Sea, Inc. to create a combined web that leverages both companies existing material.

SOLUTION
As active members in the sport of hydrofoiling we understand the sport and have accumulated a large collection of extreme hydrofoiling media. We are also experts in the creation of all media and materials required for the project including but not limited to web site design, e-commerce and photography. We recommend using our production team to handle the creation of both sites.

Let us focus on International Research Grant

Kesesuaian tema yang ditawarkan dengan topik yang ditulis dalam proposal

- ❑ Secara pribadi saya lebih suka apply untuk non-statistik theme sebagai tema besarnya, misal : disaster, climate, sustainability...arahnya kepada impact
- ❑ Seringkali call proposal tidak menyebutkan eksplisit bidang kita
- ❑ Judul dibuat tidak terlalu teknis, namun core competence kita tetap masuk dalam proposal → saya sembunyikan “statsitik”





Call for Concept Notes: Climate Adaptation and Resilience (CLARE) (Closed)

CALL FOR

Expressions of interest

PROGRAMS

Climate-Resilient Food Systems, Climate Adaptation and Resilience

TOPIC(S)

Development, Environment

DEADLINE

Tuesday, June 7, 2022 - 23:59

DURATION

Up to 42 months

COUNTRIES

South Africa, Central African Republic, Far East Asia, Algeria, Angola, Bangladesh, Burkina Faso, Burundi, Cambodia, Cameroon, Ivory Coast, Djibouti, Democratic Republic of the Congo, Equatorial Guinea, Eritrea, Ethiopia, Gabon



IDRC · CRDI

International Development Research Centre
Centre de recherches pour le développement international

(la version française suit)

Hi Everyone,

Thank you for your interest in the call for concept notes under the Climate Adaptation and Resilience (CLARE) initiative. This message provides a short update on where we are in the process.

Let me begin by expressing our appreciation and gratitude for your hard work. We have witnessed tremendous diversity and ingenuity in the ideas on climate adaptation and resilience. CLARE received 1600 concept notes by the deadline on June 7th covering all parts of Africa and Asia-Pacific. Over the past weeks, IDRC and FCDO worked tirelessly reading through this vast collection of research ideas.

I understand that you are all eager to hear more, and thank you for your patience as we ensure each concept note received individual attention. After screening and preliminary assessment, roughly 160 concept notes were referred to more detailed merit review by external experts. That process is ongoing, the results of which are expected in the coming week. The scores from external review will inform a selection of concept notes that will be invited to prepare a full proposal.

By early August, CLARE expects to invite roughly forty teams to elaborate upon their concept notes. My colleagues and I will reach out to applicants directly with a nomination letter and instructions on full proposals. CLARE will send another message to this list of applicants once those letters are sent. If you do not receive an invitation letter by August 10th, it means that your concept note is not being considered for funding.



UK Research
and Innovation

[Apply for funding](#) [Manage your award](#) [What we offer](#) [News and events](#)
[About us](#) [Our councils](#)



[Home](#) > [What we offer](#) > [International funding](#) > [Global Challenges Research Fund](#)

Global Challenges Research Fund



EN English

[Home](#) > [Research and innovation](#) > [Funding](#) > [Funding opportunities](#) > [Funding programmes and open calls](#) > [Horizon Europe](#)

Horizon Europe

Research and innovation funding programme until 2027. How to get funding, programme structure, missions, European partnerships, news and events.

www.its.ac.id



PARTNERSHIPS FOR ENHANCED ENGAGEMENT IN RESEARCH (PEER) DEVELOPMENT, SECURITY, AND COOPERATION Policy and Global Affairs

HOME

ABOUT US

FOR APPLICANTS

FOR GRANT RECIPIENTS

FUNDED PROJECTS

EMAIL UPDATES

For Applicants | Focus Areas

In the 2021/2022 call, PEER invites proposals only for research projects that focus on the impacts of COVID-19 and potential solutions that can emerge from this pandemic. The COVID-19 pandemic has led to unprecedented global challenges and uncovered weaknesses in the ability of governments, the private sector, and local and international actors to deliver services and resources across many systems. This has been true in food and agriculture, healthcare, and education, among other sectors. However, the pandemic also has inspired innovation in areas such as digital technology and social organization, and there are many examples of countries or communities effectively coordinating to confront this threat. This PEER funding opportunity looks to support locally-led research projects that (1) aid in our understanding of how shocks such as COVID-19 affect key sectors in developing countries and (2) test approaches to help communities and sectors respond to and mitigate the effects of COVID-19 or similar future shocks.

Potential sectors that might be studied include but are not limited to the following:

- Digital innovations (e.g., cashless transfers, geospatial and big data)
- Education (e.g., effects of school closure on learning, digital solutions for remote education)
- Agriculture and food (e.g., resilient value chains, effects of COVID-19 on food systems)
- Women and gender (e.g., disproportionate impact of shocks, COVID-19 and gender-based violence)
- Public health (e.g., novel approaches to contract tracing, mobile health, vaccine distribution)

PEER is interested in projects that unearth insights about the resilience of systems to shocks, supply chain responses to shocks, shocks as a driver of social and economic inequality, and the intersection between challenges within key sectors and digital solutions.

Applicant Resources

[Apply](#)

[Application Process](#)

[Eligibility](#)

[Focus Areas](#)

[Find a USG-Supported Partner](#)

[Frequently Asked Questions](#)

[PDF version of RFA \(Request for Applications\)](#)

[Program and Application Summary](#)

Do I need a USG-supported partner in order to apply?

Yes. Applicants who apply to PEER

PEER Cycle 5 Award Notification Inbox x

PEER <PEER@nas.edu>
to me, PEER ▾

Tue, Aug 30, 2016, 3:57 AM   

Dear Dr. Kuswanto,

Congratulations on your selection to receive a grant under the Partnerships for Enhanced Engagement in Research (PEER) Program! In consultation with our program sponsors at the U.S. Agency for International Development (USAID), we recently completed our evaluation process, and your proposal entitled "Strengthening Resilience to Extreme Weather Related Events in Indonesia through improving the predictability of drought risk within Drought Cycle Management Model" was one of only 47 selected from among the 163 eligible full proposals submitted received for this round, a total that was initially narrowed down from the 666 pre-proposals received earlier this year and screened for eligibility and relevance. The selection process was extremely competitive, so you can be very proud that your project was among the strongest in the excellent group of proposals we received. A list of all projects selected in this round of the program will be posted soon on our [projects webpage](#).

Your project has been approved for funding in the amount of \$199,400 requested over 36 months (3 years). Please note that the grant is not officially made until the award agreements have been signed by both the National Academies and the recipient institutions, so please do not begin your project until the agreements are in place.

Next Steps – Action Required

-
In order to have our Procurement Office here at the National Academies prepare your grant agreement for acceptance by your institution, I will need you to complete a form available online on our PEER application and grants management site. Please go to our [grants website](#) and log in with your e-mail address and password (the same ones used when you submitted your proposal). If you have forgotten your password, the page has a link where you can reset it. Once you log in, you will see a section of Follow Up Forms. Both forms, PEER Cycle 5 Baseline and Grant Set-Up Form, can be completed online.

The first form will ask you to provide some baseline data regarding your research output over the past year, which will help us track the results and impacts of your project as it moves along. The second document will require you to provide the name and contact information for an administrative staff member at your institution (the person who will be responsible for processing the grant agreement and responding to our requests for financial documentation on the project), the official name and DUNS registration number of your institution, and details regarding your institution's bank account that will receive the grant funds. (Please note: we can transfer funds only into institutional bank accounts. We will not send funds to an individual person's bank account.) If your institution does not already have a DUNS number, the information form includes a link to the official DUNS site where you may register and obtain the number. Please complete and submit the forms as soon as possible through our online proposal site, so that we can begin processing your grant agreement.

Proposal

- ❑ Judul dibuat yang menarik dan “Eye-Catching”
- ❑ Isi semua bagian dalam pre-proposal maupun proposal
- ❑ Bagian latar belakang : secara umum, masukkan sebanyak mungkin sitasi penelitian terdahulu (**walaupun tidak semuanya sudah dibaca isinya**), gap penelitian harus ada, summary tujuan penelitian harus jelas.
- ❑ Arahkan narasi proposal sesuai tujuan call for proposal
ide bisa datang sewaktu-waktu → **catat!!!**
- ❑ Bahasa inggris musti baik dan benar

Contoh bagian proposal



a. Project aims and objectives*

This project focuses on graduate students who play a critical role in the development of science and technology in Indonesia. Covid-19 has significantly influenced their learning and research activities especially for those working in Science, Technology, Engineering and Mathematics (STEM) fields. Countless hours of carefully crafted research plans have been placed at risk due to the challenges encountered during the covid-19 crisis. National university closure has forced labs to stop their research activities. The situation is worse for students living in rural/remote areas because of poor internet access. More importantly, the covid-19 crisis has increased the students' stress and anxiety, which can lead to mental health problems (Wang et al., 2020). The Ministry of Education and Research-Indonesia has granted a semester extension for students who cannot finish their studies on time due to covid-19 pandemic. However, intervention related to how to maintain graduate students' performance during covid-19 crisis was never formulated. This study aims to determine the coping strategies adopted by the graduate students during university closure and stresses of the pandemic. It will document novel and effective approaches that should be more fully explored, and possibly institutionalized, to sustain graduate programs into the future.

Specifically, the project addresses three critical research questions: (1) How did graduate students in Indonesia cope with the covid-19 crisis? (2) How did university management attempt to mitigate the impact of covid-19 crisis? (3) What interventions need to be formulated to reduce the students stress during the covid-19 crisis and to assist them in "catching up" with their studies? To answer these questions, a mixed methods approach will be conducted using a survey questionnaire for students combined with interviews of university management. In depth analysis will investigate the different responses between students living in urban areas with students living in rural/remote areas. By involving a mental health expert, the project will develop questionnaire to explore some points dealing with the stress experience and how students manage the trauma of covid-19. Results of the research will be disseminated through peer reviewed papers, and policy brief documents for the university administrators in Indonesia. The project will also organize workshops for students and university management to share the findings.

14 characters left of 2,500

b. Significance of the research as it relates to this cycle's focus area*

Please refer to the [Focus Area](#) section on our website and the [Country Strategies \(CDCS\)](#) of the focal country(ies) to help you in writing this portion of the application. The development impacts of your proposed PEER research project must be clearly articulated in this section.

The Government of Indonesia (GoI) has made human resources development one of the national priorities. Together with the GoI, the USAID mission in Indonesia (as stated in the CDCS document) has defined human capital (education and health) as one among four focuses that intersect with the GoI's medium-term plan, President's five development priorities and USG strategic interest. This project supports the USAID mission by focusing on a parallel strategy to strengthen the education and health sectors, through developing interventions to build self-reliance of graduate students during and after covid-19 crisis. In line with this, the

Syarat administrasi khusus

- ❑ Support letter dari institusi
- ❑ Seringkali diminta ada collaborator dari LN
 - Bagaimana mencari collaborator???
 - Syarat ini seringkali membuat peneliti gagal atau “malas”
- ❑



Bagaimana mencari collaborator?

- ☐ Kirim email dengan Bahasa yang baik dan sopan
- ☐ Perkenalkan diri anda dan maksud menulis email (jelaskan singkat grant yang akan diapply dan link-nya)
- ☐ Straightforward namun jangan terlalu straightforward
- ☐ Tuliskan bahwa anda sudah mempelajari research interest dia, dan tertarik dengan topik yang relate dengan penelitian dia
- ☐ Sampaikan ide sementara (subject to discussion)
- ☐ Gunakan email institusi (jika memungkinkan)
- ☐ Attach CV



Contoh email untuk mencari collaborator

Proposal for Research Collaboration about Drought in Indonesia ▶ |



heri_k@statistika.its.ac.id

to justin, me ▼

Dear Prof. Justin Sheffield,

Warm greeting from Indonesia.

Let me introduce myself. I am Dr. Heri Kuswanto, a lecturer and researcher at the department of Statistics, Institute Technology of Sepuluh Nopember (ITS) Indonesia. I have been doing research in the field of weather forecast, especially extreme weather events. In 2009, I did my Postdoctoral Research in Laval University Canada with the topic of about calibration of weather and hydrological ensemble forecast- joint work with Environment Canada (EC).

Within the last two years, I have been doing research project funded by National Academy of Science (NAS)-USAID focusing on developing composite maps for extreme rainfall and drought in Indonesia, in collaboration with Prof. Richard Grotjahn from UC-Davis as well as Prof. Edwin Alrdian from Agency for Meteorology, Climatology and Geophysics- Indonesia. You may find the overview about my research project at:

http://sites.nationalacademies.org/PGA/PEER/PEERscience/PGA_084045

Developing composite maps for drought case is very challenging for us and it seems that we need to think about another way of predicting drought

However, one of the requirements to be eligible for applying the project is to have a partner from US who is currently received grant from one of US Gov. Institutions such as NSF. Having carefully searching the potential partner, I saw your profile from the NSF awardee list and I am really interested to work with you on the topic of "drought in Indonesia". For your information, many regions in Indonesia are now suffered from severe drought, meanwhile we don't have a good system (tool) to monitor and predict the event.

I also have visited your webpage profile and I see that you did a lot of works dealing with drought especially in Africa. I am interested to develop drought monitoring and forecasting system in Indonesia, which can be adopted from your work below:

Sheffield, J., E. F. Wood, N. Chaney, K. Guan, S. Sadri, X. Yuan, L. Olang, A. Amani, A. Ali, and S. Demuth, 2013; A Drought Monitoring and Forecasting System for Sub-Sahara African Water Resources and Food Security. Bull. Am. Met. Soc., 95, 861–882.

I think that the work fits my research interest very well as I have also experience to work on ensemble hydrological forecast during my postdoctoral project in Canada. Of course, the proposed research plan will involve of training, exchange visit, etc. I attach my CV as your reference.

Through this email, I would like to convey my interest to asking you as my partner for my research plan. I will write my brief introduction about the research plan and if you don't mind, we may discuss further about it

Dana yang diajukan

Sebaiknya jangan dimaksimalkan sejumlah yang dialokasikan.

Submission deadline

Usahakan submit paling lambat H-1 untuk menghindari ada technical problem (listrik mati, jumlah kata kelebihan, internet down, dll)



Jangan takut ditolak/ gagal

Summary : Tips dan Trik

- Bangun Portfolio → menjadi anggota, atau penelitian nasional
- Be active
- Harus dicoba == jangan takut gagal
- Kenali kapasitas diri kita
- Ikuti semua persyaratan
- Submit tidak mendekati deadline
- Doa