

# The Abdus Salam International Centre for Theoretical Physics



## 3rd Summer School on Theory, Mechanisms and Hierarchical Modeling of Climate Dynamics: Tropical Oceans, ENSO and their teleconnections |

18 Jul 2022 - 29 Jul 2022 ICTP, Italy

## 6 Directors

| 1. | CAPOTONDI Maria Antonietta | (In Pers.) | University of Colorado and NOAA/ESR | United States of America |
|----|----------------------------|------------|-------------------------------------|--------------------------|
| 2. | FARNETI Riccardo           | (In Pers.) | ICTP                                | Italy                    |
| 3. | KUCHARSKI Fred             | (In Pers.) | ICTP                                | Italy                    |
| 4. | SHUKLA Jagadish            | (In Pers.) | George Mason University             | United States of America |
| 5. | STRAUS Martin David        | (In Pers.) | George Mason University             | United States of America |
| 6. | TOMPKINS Mark Adrian       | (In Pers.) | ICTP                                | Italy                    |

### 20 Lecturers

| 1.  | ABID Muhammad Adnan            | (In Pers.) | ICTP   | Italy                      |
|-----|--------------------------------|------------|--|----------------------------|
| 2.  | BORDONI Simona                 | (In Pers.) | University of Trento   | Italy                      |
| 3.  | CHERCHI Annalisa               | (Online)   | Centro Euro Mediterraneo per i Cambiamenti Climatici<br>CMCC , Istituto Nazionale di Geofisica e<br>Vulcanologica INGV                                     | Italy                      |
| 4.  | FEDOROV Alexey V.              | (In Pers.) | Yale University, Department of Geology & Geophysics  | United States of America   |
| 5.  | GUILYARDI Eric                 | (In Pers.) | LOCEAN Laboratoire d"Oceanographie<br>Experimentation et Approches Numeriques, IPSL<br>Institut Pierre Simon LaPlace, Universite" Pierre et<br>Marie Curie | France                     |
| 6.  | JIN Fei-Fei                    | (In Pers.) | University of Hawaii at Manoa SOEST, Department of<br>Meteorology, Science of the Atmosphere   | United States of America   |
| 7.  | KANG In Sik                    | (In Pers.) | Second Institute of Oceanography   | People's Republic of China |
| 8.  | KIRTMAN Benjamin Paul          | (Online)   | University of Miami, Rosenstiel School of Marine and<br>Atmospheric Science, RSMAS,MGG   | United States of America   |
| 9.  | KRISHNAMURTHY Venkataramanaiah | (Online)   | George Mason University, GMU, The Center for<br>Ocean, Land, Atmosphere Studies, COLA  | United States of America   |
| 10. | L'HEUREUX Michelle             | (In Pers.) | NOAA   | United States of America   |
| 11. | MCPHADEN James Michael         | (In Pers.) | NOAA / PMEL  | United States of America   |
| 12. | MOLTENI Franco                 | (Online)   | ECMWF  | United Kingdom             |
| 13. | PLANTON Yann                   | (In Pers.) | NOAA/PMEL  | United States of America   |
| 14. | RAVINDRAN Ajaya Mohan          | (Online)   | Center for Prototype Climate Modelling   | United Arab Emirates       |
| 15. | ROBERTSON Andrew William       | (In Pers.) | International Research Institute for Climate and Society, IRI, The Earth Institute, Columbia University  | United States of America   |
| 16. | SANTOSO Agus                   | (Online)   | -  | -                          |
| 17. | SWENSON Erik Thomas            | (In Pers.) | George Mason University, GMU, The Center for<br>Ocean, Land, Atmosphere Studies, COLA  | United States of America   |
| 18. | WANG Chunzai                   | (Online)   | Chinese Academy of Sciences  | People's Republic of China |
| 19. | WITTENBERG Thorne Andrew       | (In Pers.) | NOAA Geophysical Fluid Dynamics Laboratory   | United States of America   |
| 20. | XIE Shang-Ping                 | (Online)   | Scripps Institution of Oceanography, University of California, San Diego   | United States of America   |

#### 3 Speakers

| BARIMALALA Rondrotiana     OJHA Narendra | (In Pers.) | University of Cape Town<br>Physical Research Laboratory, Space and | South Africa |  |
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|  | (111 65.)  | Atmospheric Division   | muia         |  |
| 3. THUAL Sulian                          | (In Pers.) | CECI - CERFACS/CNRS  | France       |  |
| 114 Participants                         |            |  |              |  |
| 1. ABDELKADER DI CARLO Isma              | (In Pers.) | Laboratoire des Sciences du Climat et de<br>l'Environnement        | France       |  |

| 21. DAS Debanjana (In Pers.) Department of Geological Sciences, Jackson School United States of America of Geosciences, The University of Texas at Austin, Austin, USA  | 2.  | AFFRAM Grace Esenam         | (In Pers.) | Utah State University Department of Plants, Soils and Climate   | United States of America   |
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| Journal of a strategy of the  | 4.  | AMOOLI Joe Adabouk          | (Online)   | West African Science Service Center on Climate<br>Change And Adapted Land Use(WASCAL), University<br>Joseph Ki-Zerbo, Doctorate School of Informatics for | Burkina Faso               |
| Artistration     Artistration, University of Conserving on the Environmental the Ensemble Department of Conserving on the Environmental Processor, Engentron of Conserving on the Environmental Processor, Processor  | 5.  | ASHFAQ Moetasim             | (In Pers.) |   | United States of America   |
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| Image: Section  | 7.  | AWO Founi Mesmin            | (Online)   | Research, Department of Oceanography, University of   | South Africa               |
| Instrume     (in Pers.)     University of Vierna, Department of Meteorology and<br>Geophysics     Austria       11.     EELLACAAZONE Fabio     (onim)     -     Italy       12.     BENCHE Margot     (in Pers.)     Laboratoria of Klutes en Gaphysics et<br>Ochanographysics et<br>Ochanographysics et<br>Ochanographysics     India       13.     BHARATI Priya     (Onim)     Carite for Oceans, Rivers, Almosphere and Land<br>Sciences(CORL), Indian Institute of Technology, Bhasesware School of<br>UIT), Khanagar (Mets Bangs).     India       14.     BOLIKA Lina     (Onime)     Geophysical Institute of Technology, Bhasesware School of<br>earth, Ocean and Clinate Sciences     Norway       15.     BUCHA Krisna     (Onime)     Geophysical Institute of Technology, Bhasesware School of<br>earth, Ocean and Clinate Sciences     India       16.     CASALLAS GARCIA Alejandro     (in Pers.)     Sciences faculty, Department of geoscience -<br>meteonology, Bhasesware School of<br>earth, Ocean and Clinate Sciences     India       17.     CHAKRABORTY Tapalyoti     (Onime)     Earth Ocean and Clinate Sciences     Republic of Camebon       18.     CHAUDIN Ashneel     (Onime)     Boothoristy of Yacundo 1, Faculty of Sciences,<br>Internotion     Republic of Clinita       19.     DAKUAN Yu     (Onime)     -     Peoples Republic of Clinita       20.     DAKUAN Yu     (Onime)     Sciences     Peoples Republic of Clinita       21. <td< th=""><th>8.</th><th>BAHAGA Kassa Titike</th><th>(Online)</th><th>(ICPAC) Ngong Town Kibiku A Road, P.O.Box 10304-</th><th>Kenya</th></td<>   | 8.  | BAHAGA Kassa Titike         | (Online)   | (ICPAC) Ngong Town Kibiku A Road, P.O.Box 10304-  | Kenya                      |
| Geophysics         Head of the Automation of Automatica automation of   | 9.  | BAHMANZADE Fateme           | (Online)   | University of Tehran Institute of Geophysics  | Islamic Republic of Iran   |
| 12.     BENCHE Margot     In Pars.     Laboratorie d'Eludes en Géophysique et<br>Oceanographie Spatiales - UMRSSér, Chiservatore<br>Md Pryniess     France       13.     BHARATT Priya     IORIN9     Centre for Oceans, Rives, Amosphere and Land<br>Sciences (CARAL), Indian Institute of Technology<br>(IT), Kharagour West Bengal).     India       14.     BOLJKA Lina     IORIN9     Gorphysical Institute, University of Bergen     Norway       15.     BUCHA Krina     IORIN9     Goophysical Institute, University of Bergen     Norway       16.     CASALLAS GARCIA Alejandro     (Indian Institute of Technology, Blubaneswar School of<br>entecorology     India       17.     CHAKRABORTY Tapajyoti     (IORIN9)     Indian Institute of Technology, Blubaneswar School of<br>entecorology     India       18.     CHANDRA Ashneel     (IORIN9)     Electronic Institute, University of Bergen     Norway       19.     CLAUDIN Technola Wamba     (IORIN9)     Electronic Institute, University of English Calabracian Sciences     Republic of Calmon       20.     DAKUAN Yu     (IORIN9)     -     People's Republic of Chin<br>Austin, USA     People's Republic of Chin<br>Austin, USA       21.     DAS Staojie     (IORIN9)     Listories Sciences, The University of Texas at Austin,<br>P.O.BOX 812 Yabaude-Calmeron     People's Republic of Chin<br>Austin, USA       22.     DING Xiaojie     (IORIN9)     Electronic Sciences, The University of Texas at Austin,<br>P.O.BOX 812 Y   | 10. | BAIER Katharina             | (In Pers.) |   | Austria                    |
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| 15.     BUCHA Krisna     (Online)     Open University of Mauritius     Mauritius       16.     CASALLAS GARCÍA Alejandro     (In Pers.)     Science faculty, Department of geoscience -<br>meteorology     Colombia       17.     CHAKRABORTY Tapajyoti     (Online)     Indian Institute of Technology, Bhubaneswar School of<br>earth, Ocean and Climate Sciences     India       18.     CHANDRA Ashneel     (Online)     Geophysical Institute, University of Sciences.<br>Department of Physics, Laboratory for Environmental<br>Modeling and Atmospheric Physics     Noway       19.     CLAUDIN Technda Wamba     (Online)     -     People's Republic of Chinic<br>Modeling and Atmospheric Physics     Republic of Chinic       20.     DAKUAN Yu     (Online)     -     People's Republic of Chinic<br>Modeling and Atmospheric Physics     United States of America<br>Modeling and Atmospheric Physics     United States of America<br>Modeling and Atmospheric Physics     United States of America<br>Modeling and Atmospheric Physics     People's Republic of Chinic<br>Modeling and Atmospheric Physics     United States of America<br>Modeling and Atmospheric Physics     People's Republic of Chinic<br>Modeling and Atmospheric Physics     United States of America<br>Modeling and Atmospheric Physics     People's Republic of Chinic<br>Modeling and Atmospheric Sciences and Neteorology     Philippines       21.     DAS Debanjana     (Online)     Institute of Coceanoga, Chinese<br>Academy of Sciences     People's Republic of Chinic<br>Modeling and Atmospheric Science and Meteorology     Philippines   | 13. | BHARATI Priya               | (Online)   | Sciences(CORAL), Indian Institute of Technology   | India                      |
| 16.       CASALLAS GARCÍA Alejandro       (In Paris.)       Science faculty, Department of geoscience - meteorology       Colombia         17.       CHAKRABORTY Tapajyoti       (Online)       Indian Institute of Technology, Bhubaneswar School of all all all all and Climate Sciences       India         18.       CHANDRA Ashneel       (Online)       Geophysical Institute, University of Bergen       Norway         19.       CLAUDIN Tehinda Wamba       (Online)       Department of Physics, Laboratory for Environmental Modeling and Atmospheric Physics (LEMAP), P. O. BOX 812 Yaounde-Cameroon       People's Republic of Cameroon Department of Physics, Laboratory for Environmental Modeling and Atmospheric Physics (LEMAP), P. O. BOX 812 Yaounde-Cameroon       People's Republic of Chin Cameroon         20.       DAKUAN Yu       (Online)       -       People's Republic of Chin Cameroon         21.       DAS Debanjana       (In Peris.)       Department of Horizes at Austin, Austin, Austin, Austin, United States of America of Geosciences, The University of Texas at Austin, Austin, USA       United States of America Academy of Science and Meteorology       Philippines         22.       DING Xiaojle       (Online)       Institute of Environmental Science and Meteorology       Philippines         23.       DIOCAMPO Tamayo Ryan       (Online)       K Banejee Centre of Atmospheric and Ocean Studes, India       United States of America School Columbia University of Allanabad       United States of America School   | 14. | BOLJKA Lina                 | (Online)   | Geophysical Institute, University of Bergen   | Norway                     |
| 17.       CHAKRABORTY Tapajyoti       (Online)       Indian Institute of Technology, Bhubaneswar School of and Cimate Sciences         18.       CHANDRA Ashneel       (Online)       Geophysical Institute, University of Bergen       Norway         19.       CLAUDIN Tchinda Wamba       (Online)       University of Yacunda 1, Eaclatuty of Sciences, Department of Physics, Laboratoy for Environmental Modeling and Atmospheric Physics (LEMAP), P.O.BOX 812 Yacunda - Cameroon       People's Republic of Chin         20.       DAKUAN Yu       (Online)       People's Negublic of Chin         21.       DAS Debanjana       (In Pers.)       Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, Austin, USA       United States of America Academy of Sciences         22.       DING Xiaojie       (Online)       South China Sea Institute of Conselogy, Chinese People's Republic of Chin Academy of Sciences       People's Republic of Chin Academy of Sciences         23.       DIOCAMPO Tamayo Ryan       (Online)       Instituto of Twinormental Science and Meteorology       Philippines         24.       DISERA Anne Laurel       (In Pers.)       International Research Institute of Cimate and Cuinted States of America Atmospheric Science Sciences (Columbia University)       United States of America Science, Columbia University       India         25.       DWIVED Suneet       (Online)       K Banerjee Centre of Atmospheric and Cocean Studies, India   | 15. | BUCHA Krisna                | (Online)   | Open University of Mauritius  | Mauritius                  |
| 18. CHANDRA Ashneel       (Online)       Geophysical Institute, University of Bergen       Norway         19. CLAUDIN Tchinda Wamba       (Online)       University of Yacunde 1, Faculty of Sciences, Department of Physics, Laboratory for Environmental Modeling and Atmospheric Physics (LEMAP), P.O.BOX 812 Yaounde-Cameroon       Republic of Cameroon         20. DAKUAN Yu       (Online)       -       People's Republic of Chin         21. DAS Debanjana       (In Pers.)       Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, Austin, USA       University of Texas at Austin, Austin, USA         22. DING Xiaojie       (Online)       South China Sea Institute of Oceanology, Chinese People's Republic of Chin Academy of Sciences       People's Republic of Chin Academy of Sciences         23. DIOCAMPO Tamayo Ryan       (Online)       Institute of Environmental Science and Meteorology       Philippines         24. DISERA Anne Laurel       (In Pers.)       International Research Institute for Climate and Science and Meteorology       United States of America Sciences Emergent Climate Resk Lab         25. DWIVEDI Suneet       (Online)       K Banejee Cantro of Atmospheric Sciences, Resenstiel       United States of America Sciences Emergent Climate Risk Lab         27. FEBRE Jose Cristian       (In Pers.)       Comend University of Allahabad       United States of America School of Marie       United States of America School of Marie         27. FEBRE Jose Cristian  | 16. | CASALLAS GARCÍA Alejandro   | (In Pers.) |   | Colombia                   |
| 19.       CLAUDIN Tchinda Wamba       (Online)       University of Yaounde 1, Faculty of Sciences, Department of Physics (LEMAP), Proceeding and Atmospheic Laboratory for Environmental Modeling and Atmospheic Sciences, Laboratory for Environmental Modeling and Atmospheic Laboratory for Environmental Modeling and Atmospheic Sciences, Jackson School       Republic of Cameroon         20.       DAKUAN Yu       (Online)       -       People's Republic of Chin         21.       DAS Debanjana       (In Pers.)       Department of Geological Sciences, Jackson School       United States of America of Geosciences, The University of Texas at Austin, Austin, USA         22.       DING Xiaojie       (Online)       South China Sea Institute of Oceanology, Chinese Academy of Sciences       People's Republic of Chin         23.       DIOCAMPO Tamayo Ryan       (Online)       Institute of Cerando Cean Meteorology       Philippines         24.       DISERA Anne Laurel       (In Pers.)       International Research Institute for Clinate and Society, Climate School, Columbia University of Allahabad       University of Allahabad       University of Allahabad         25.       DWIVEDI Suneet       (In Pers.)       Institute of Ceanegraphy, CEN, Universitä Hamburg, Germany       Germany         26.       EVANS Parker Colin       (In Pers.)       Institute of Ceanegraphy, CEN, Universitä Hamburg, Germany       Germany         27.       FEBRE Jose Cristian       (In Pers.)       Insti   | 17. | CHAKRABORTY Tapajyoti       | (Online)   |   | India                      |
| 20.       DAKUAN Yu       (Online)       People's Republic of Chin         21.       DAS Debanjana       (In Pers.)       Department of Geological Sciences, Jackson School<br>of Geosciences, The University of Texas at Austin,<br>Austin, USA       United States of America<br>of Geosciences, The University of Texas at Austin,<br>Austin, USA         22.       DING Xiaojie       (Online)       South China Sea Institute of Oceanology, Chinese<br>Academy of Sciences       People's Republic of Chin<br>Austin, USA         23.       DIOCAMPO Tamayo Ryan       (Online)       South China Sea Institute of Coreanology, Chinese<br>Academy of Sciences       People's Republic of Chin<br>Academy of Sciences         24.       DISERA Anne Laurel       (Online)       International Research Institute for Climate and<br>Society, Climate School, Columbia University       United States of America<br>Society, Climate School, Columbia University         25.       DWIVEDI Suneet       (Online)       Correll University of Harbabad       United States of America<br>Society, Climate School, Columbia University       India         27.       FEBRE Jose Cristian       (In Pers.)       Correll University of Malabada       United States of America<br>School of Matine and Atmospheric Sciences, Rosenstiel<br>School of Matine and Atmospheric Sciences, Rosenstiel       United States of America<br>School of Matine and Atmospheric Sciences, Rosenstiel         28.       FEBRE Jose Cristian       (In Pers.)       Department of Atmospheric Sciences,   | 18. | CHANDRA Ashneel             | (Online)   | Geophysical Institute, University of Bergen   | Norway                     |
| 21. DAS Debanjana       (In Pers.)       Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, Austin, USA       United States of America of Geosciences, The University of Texas at Austin, Austin, USA         22. DING Xiaojie       (Online)       South China Sea Institute of Oceanology, Chinese       People's Republic of Chin Academy of Sciences         23. DIOCAMPO Tamayo Ryan       (Online)       Institute of Environmental Science and Meteorology       Philippines         24. DISERA Anne Laurel       (In Pers.)       International Research Institute for Climate and Society, Climate School, Columbia University       University of Allahabad       United States of America Society, Climate School, Columbia University         25. DWIVEDI Suneet       (Online)       Kanroper Correct of Atmospheric and Ocean Studies, University of Allahabad       United States of America Society, Climate School, Columbia University         26. EVANS Parker Colin       (In Pers.)       Cornell University of Partment of Earth and Atmospheric Sciences Emergent Climate Risks Lab       United States of America School of Marine and Atmospheric Sciences, Rosenstiel       United States of America School of Marine and Atmospheric Sciences, University of Miami and Atmospheric Sciences, University of Miami         29. FIRDAUS Randi       (Online)       Indonesia Agency for Meteorology Climatology and Geoprity of Miami       Indonesia         30. FU Shuo       (Online)       Duke University       United States of America Scricolic Sciences, Servicio Meteorolog   | 19. | CLAUDIN Tchinda Wamba       | (Online)   | Department of Physics, Laboratory for Environmental<br>Modeling and Atmospheric Physics (LEMAP),  | Republic of Cameroon       |
| di Geosciences, The University of Texas at Austin,<br>Austin, USA         22. DING Xiaojie       (Online)       South China Sea Institute of Ceanology, Chinese<br>Academy of Sciences       People's Republic of Chin<br>Academy of Sciences         23. DIOCAMPO Tamayo Ryan       (Online)       Institute of Environmental Science and Meteorology<br>University of the Philippines Diliman       Philippines         24. DISERA Anne Laurel       (In Pers.)       International Research Institute for Climate and<br>Society, Climate School, Columbia University       United States of America         25. DWIVEDI Suneet       (Online)       K Baerejee Centre of Atmospheric and Ocean Studies,<br>University of Allahabad       India         26. EVANS Parker Colin       (In Pers.)       Cornell University Department of Earth and<br>Atmospheric Sciences Emergent Climate Risks Lab       United States of America         27. FEBRE Jose Cristian       (In Pers.)       Institute of Oceanography, CEN, Universität Hamburg,<br>Germany       Germany         28. FENSKE Mitchell Tyler       (In Pers.)       Department of Atmospheric Sciences, Rosenstiel<br>School of Marine and Atmospheric Sciences,<br>University of Miami       United States of America         29. FIRDAUS Randi       (Online)       Indonesia Agency for Meteorology Climatology and<br>Geophysics (BMKG)       Indonesia         30. FU Shuo       (Online)       Direccinia Central de Monitoreo del Clima, Dirección<br>Nacional de Cliencia, Erionica Servicio Meteorology Climatology and<br>Servicios, Servicio Meteorologico Nacional Be   | 20. | DAKUAN Yu                   | (Online)   |   | People's Republic of China |
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