

## 2023 NHERI COMPUTATIONAL ACADEMY AGENDA

| <b>Day 1: 17th July (Mon)</b> |  |
|-------------------------------|--|
| 9:00 - 9:45 AM                | Introduction to NHERI Computational Academy - Dr Rathje<br>Introduction to DesignSafe and SimCenter  |
| 9:45 - 10:30 AM               | Scientific Python and Launching Jupyter notebooks on DS (Charlie Dey)  |
| 10:30 - 10:45 AM              | Break  |
| 10:45 - 12:00 PM              | Project: Team meeting and ice breaker  |
| 12:00 - 1:00 PM               | Lunch  |
| 1:00 - 2:00 PM                | UQ Overview - (Aakash Bangalore Satish)  |
| 2:00 - 3:00 PM                | Project Training (individual project)  |
| 3:00 - 3:15 PM                | Break  |
| 3:15 - 5:00 PM                | Project Time (1.75 hr)   |
| <b>Day 2: 18th July (Tue)</b> |  |
| 9:00 - 10:30 AM               | Machine Learning/Artificial Intelligence (Krishna Kumar)   |
| 10:30 - 10:45 AM              | Break  |
| 10:45 - 12:00 PM              | TAPIS: Launching HPC Jobs (Pedro Arduino)<br>Introduction to Computational Wind Engineering (Abiy Melaku)  |
| 12:00 - 1:00 PM               | Lunch  |
| 1:00 - 2:30 PM                | Project Time (1 hr)  |
| 2:30 - 2:45 PM                | Break  |
| 2:45 - 5:00 PM                | Project Time (2.25 hrs)  |
| <b>Day 3: 19th July (Wed)</b> |  |
| 9:00 - 10:00 AM               | Visualization - 20 minutes each <ul style="list-style-type: none"> <li>● Mapping Hazards using QGIS (Pranavesh Panakkal)</li> <li>● HazMapper (Nathan Franklin)</li> <li>● Paraview (Abiy Melaku)</li> </ul> |
| 10:00 - 10:15 AM              | Break  |
| 10:15 - 11:00 AM              | Training   |

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| 11:00 - 12:00 PM | Project Time (1 hrs)   |
| 12:00 - 1:00 PM  | Lunch [Office hours: Collaborations with SimCenter and DesignSafe] |
| 1:00 - 3:00 PM   | Project Time (2 hrs)   |
| 3:00 - 3:15 PM   | Break  |
| 3:15 - 5:00 PM   | Project time (1.75 hrs)  |

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| <b>Day 4: 20th July (Thu)</b> |  |
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| 9:00 - 10:30 AM  | Project Time (1.5 hrs)                        |
| 10:30 - 10:45 AM | Break   |
| 10:45 - 12:00 PM | Project Time (1.25 hrs)                       |
| 12:00 - 1:00 PM  | Lunch   |
| 1:00 - 2:00 PM   | Project Time (1 hr)                           |
| 2:00 - 4:00 PM   | Project Presentations 7 @ 15 min Presentation |