

**NHERI GSC Fall
Research Working
Group Meeting**



**Thursday,
November 3
11:00am CST**

Taylor Heath
Chair of Research

Rakesh Salunke
Vice Chair of
Research

Agenda

- I. Previous and Upcoming Events
- I. Presentation of Possible Future Events and Opportunities
- I. Discussion and Feedback for New Workshops and Opportunities



Previous and Upcoming Events



NHERI GSC DesignSafe and SimCenter Tools Workshop Series

We are excited to announce that our first workshop will be:

 *Welcome*

DR. KAUNSHI ZHONG



Tool: SimCenter EE-UQ

Topic: Structural response analysis under earthquake ground motion



**Building response analysis
under earthquake ground
motion (EE-UQ)**

**Thursday, November 10
11:00am CST**



NHERI GSC DesignSafe and SimCenter Tools Workshop Series

Register for the NHERI
GSC & SimCenter
Research Tool
Workshop Series here!

https://bit.ly/NHERI_GSCSimCenterWorkshopSeries



NHERI GSC DesignSafe and SimCenter Tools Workshop Series

- Generally the second Friday of every month
- Topics (in no particular order):
 - Machine Learning and AI Resources (Jupyter, Interactive Data Analytics, HPC)
 - Developing and benchmarking new fragility and consequence functions (PBE)
 - Simulation of regional hurricane impact (R2D)
 - Data Analysis using Next Generation Liquefaction (NGL) Database (NGL, Jupyter, SQL, Interactive Data Analytics)



Natural Hazards Research Summit

Lifting the Curtain of Academic Publishing Panel

NHERI
Science
Plan



Tracy Kijewski-Correa

StEER Network Director
Pulte Institute for Global Development Director
Professor of Eng. & Global Affairs
University of Notre Dame

Best Publishing
Practices,
Conferences &
Journals



Jennifer Bridge

PI NHERI Boundary Layer Wind Tunnel
Assoc. Professor of Civil & Coastal Eng.
University of Florida

Data
Publishing



Tim Cockerill

Texas Advance Computing Center
Director of User Services
& Center Programs
University of Texas at Austin

Publishing
Mentor, Peer
Review, &
Rejection



Lori Peek

PI CONVERGE, SSEER, & ISEER
Director of Natural Hazards Center
Professor of Sociology
University of Colorado Boulder



Events In- Development



Academic Publishing: Follow-up Workshop

- Follow-up workshop: date TBD
 - Tentative format: presentation of summary of information from the publishing panel and workshop to generate collaborative, publishable research agendas
- Deliverables
 - Synopsis of panel discussion
 - Spreadsheet of natural hazards journals and conferences across disciplines



Mini-Conference and Collaborative Research Challenge

- Major goal: Virtual mini-conference based on a collaborative, interdisciplinary research challenge in March 2023
- Guidelines
 - Topics to be selected from NHERI Science Plan and CONVERGE modules focusing on major challenges in the natural hazards field
 - Groups assigned by WG leadership to match research interests and emphasize interdisciplinary groups
 - Poster or full-paper submissions accepted



Mini-Conference and Collaborative Research Challenge

- Tentative Timeline (subject to change):
 - Challenge posted mid-November 2022
 - Challenge closed end-of-November 2022
 - Groups formed beginning of December 2022
 - Abstracts due beginning of February 2023
 - Conference towards end of March 2023



Works-in-Progress Workshops

- Virtual workshops in which members can share ongoing research at various stages of design
- Target: once per semester or once every three months

NHERI Experimental Facilities Panel

- Invite NHERI site coordinators to discuss opportunities for graduate students to:
 - Get involved at different NHERI facilities
 - Pursue ongoing or new research projects
 - Attend or participate in upcoming workshops
- Date: TBD in spring semester



Member Suggestions!



Member Planning and Suggestions

- Mini-conference
 - Faculty review abstracts for mini-conference
 - Groups based on research interests!
 - DOI through DataDepot, conference website for participating presenters
- Writing workshops/writing accountability groups
- Accepting abstracts for other research (i.e. dissertation research)
- Professionalization workshops (resume/CV writing)
 - Include scholars across disciplines (social science and engineering)
 - Collaboration with W&M working group
 - Having exemplar CVs/resumes
 - Applying for post-docs/lecturer/assistant professor track jobs (job market workshop(s))
 - Networking
 - Bringing in folks outside of NHERI network who specialize in these things
- Bank of ideas for research topics with names for folks to reference to find potential collaborators (general research interests/specific research topics)
 - Living google document, sharepoint document?
- Research speed-dating!
- Abstract speed-dating
 - 5-10 minutes with the group giving the pitch on their abstract with faculty to get rapid feedback
- Highlight members in a newsletter/at meetings



**Thank
you!**

Taylor Heath

Chair of Research

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Rakesh Salunke

Vice Chair of Research

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Invite Your Friends, Get Involved in NHERI GSC!

Invite your friends to join NHERI GSC!

https://bit.ly/NHERI_GSCouncil



Join NHERI GSC Working Groups!

https://bit.ly/NHERI_GSCWorkingGroup



NHERI GSC Research Working
Group Attendance 11-03-2022

Robin Nelson
Nurullah Bekktas
Nancy Ingabire Abayo
Tay Heath
Rakesh Salunke
Jasmine Bekkaye
ASHRAY SAXENA
Amber Spears
Mohamed
Holly Davies



National Science Foundation

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