

**Overview of Non-ergodic Ground-Motion Methodologies and Models:  
An Online Workshop on April 4, 2022 at 9:00 am – 12:00 pm (PST)**

An introductory workshop on the development and applications of Non-ergodic Ground-Motion Models (NGMMS) will be held online on Monday, April 4 from 9:00 am – 12:00 pm (PST). NGMMS have the potential of reducing the aleatory ground-motion variability which has a large impact on the seismic hazard. The objective of the workshop is to introduce the methodologies for developing spatially varying NGMMS, share and present the developed software for the regression and application of NGMMS, and discuss the role of numerical simulations in NGMMS development and verification.

The workshop is organized by the UCLA Natural Hazards Risk and Resiliency Research Center (NHR3) and its partners. Financial support by the California Department of Transportation and Pacific Gas & Electric Company is greatly appreciated.

**Register by March 31, 2022 at:** <https://www.risksciences.ucla.edu/nhr3/ngmm-workshop>

Agenda:

- [09:00 – 09:10] Introductory remarks (Yousef Bozorgnia)
- [09:10 – 09:30] Overview and application of NGMMS (Norman Abrahamson)
- [09:30 – 10:10] Summary of various NGMMS and methodologies (Greg Lavrentiadis and Nicolas Kuehn)
- [10:10 – 10:30] Role of 3D earthquake simulations in informing NGMM development (Xiaofeng Meng and Christine Goulet)

(10-min break)

- [10:40 – 11:10] Summary of various implementations and computer codes (Greg Lavrentiadis and Elnaz Seylabi)
- [11:10 – 11:20] Introduction of the report documenting methods and computer codes (Elnaz Seylabi and Greg Lavrentiadis)
- [11:20 – 11:30] Examples of hazard results (Greg Lavrentiadis, Albert Kottke, and Nicolas Kuehn)
- [11:30 – 12:00] Q/A and next steps (Yousef Bozorgnia)

For any questions, please contact Greg Lavrentiadis [glavrentiadis@ucla.edu](mailto:glavrentiadis@ucla.edu)