



Intro to CEE 209S: Disaster Resilience Seminar

SEPTEMBER 26, 2018
STANFORD UNIVERSITY

Chittayong (Jao) Surakitbanharn (jao@stanford.edu)

TA: Sabine Loos (sloos@stanford.edu)

Stanford Urban Resilience Initiative (SURI)

Day 1 – Intro to...

1. Stanford Urban Resilience Initiative (SURI).
2. Seminar structure and speakers.
3. Each other.

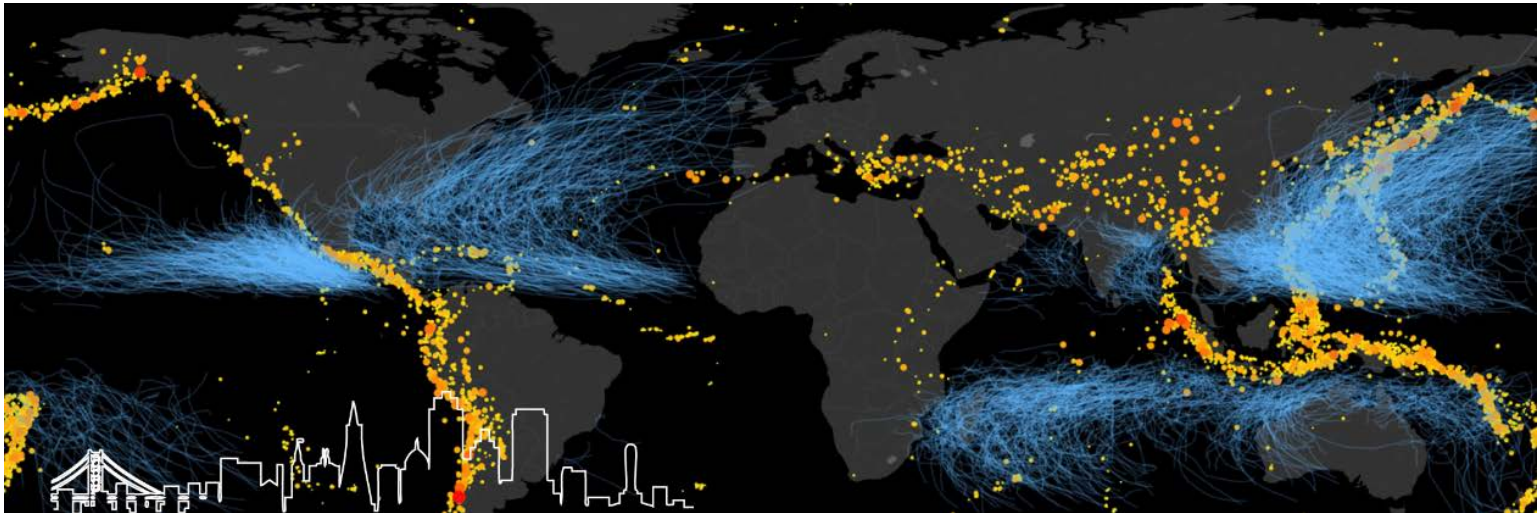
What is SURI?



STANFORD URBAN RESILIENCE INITIATIVE

Researchers and stakeholders applying engineering analyses to capture social impact and human behavior for natural disasters and extreme events.

<http://urbanresilience.stanford.edu/>



Who we are

CORE TEAM



**Jack Baker
(Director)**

Structural Reliability /
Earthquake Ground
Motions



**Chittayong (Jao)
Surakitbanharn
(Executive
Director)**

Disaster Decision
Making



Greg Deierlein

Structural Analysis /
Performance-Based
Design



Jenny Suckale

Geophysics / Applied
Mathematics



Anne Kiremidjian

Regional Loss Modeling
/ Systems Reliability

Who we are

COLLABORATORS



Derek Ouyang

Sustainable Urban
Systems



Leonard Ortolano

Environmental/Water
Resources Planning and
Mangement



Alice Hill

Policy to Build
Resilience



Carrie Armel

Behavior / Energy
Sustainability



Deland Chan

Urban Sustainability



Perrine Hamel

Ecosystem Services and
Conservation



Mary Lou Zoback

Geophysics / Natural
Hazards Risk



**Robert Soden
(CU Boulder)**

Human Computer
Interaction/Science and
Technology Studies



**David Lallemand
(NTU)**

Urban Loss Modeling /
Probabilistic Inference

Who we are

STUDENTS



**Maryia
Markhvida**

Catastrophe Risk
Assessment



Luis Ceferino

Structural Analysis /
Catastrophe Risk
Assessment



Gemma Cremen

Performance-Based
Loss Modeling



Anne Hulsey

Post-Earthquake
Downtime Induced by
Safety Cordons



Sabine Loos

Post-Earthquake Impact
Estimation for Recovery
Planning



**Gitanjali
Bhattacharjee**

Risk/Reliability Analysis
of Transport Networks
& Decision Making
Under Uncertainty



Guoqin Ma

Data-Driven Disaster
Decision Making



Pablo Heresi

Performance
Based Earthquake
Engineering / Regional
Risk Assessment

Engaging with SURI



Other Events

SURI Coffee Hour

Wednesday 3:30-4:30 upstairs in Blume 02-540

An informal setting for faculty and students to share resilience research updates.



Other Events

<http://urbanresilience.stanford.edu/news-events/>

Alumni and Affiliates Meeting – Friday October 5th

Convergence of Performance-Based Engineering with Urban Resilience

Huang Engineering Center, Mackenzie Room 300



Henry Burton
2014, Ph.D.
UCLA



Rachel Davidson
1997, Ph.D.
U. of Delaware



Ezra Jampole
2016, Ph.D.
Exponent



David Lallement
2015, Ph.D.
Nanyang Technical U.

Registration link: <https://blume.stanford.edu/event/2018affiliates-meeting>

Seminar Structure and Speakers



Structure

One week before the seminar, reading or media and speaker bio will be posted on Canvas.

On the Monday before the seminar before 4pm, write a minimum of one question for the speaker onto a shared [Google Document](#).

On the day of the seminar, the invited speaker will have 25 minutes to present (consecutive or broken up) and 25 minutes for questions and discussions.

You may miss up to three seminars and still receive credit for the course.

Decision making for resilience



October 3
Adam Zsarnoczay
Stanford



October 10
Milad Memarzadeh
UC Berkeley



October 17
Misse Wester
Lund University

Decision making for resilience



October 24
Marie Christine
Razaire
State Farm Innovation
Lab



October 31
Charles Scawthorn
SPA RISK LLC



November 7
Greg Cutsinger
Scholar Farms
(Carr Fire Example)

Decision making for resilience



November 14
Miyuki Hino
Stanford



November 28
Michael Germeraad
ABAG/MTC



December 5
Katharine Mach
Stanford Woods
Institute

Intro to Each Other



Each person...

1. Your name?
2. What is your interest in disaster resilience?
3. What do you hope to get out of this seminar?

Takeaway message

Disasters are complex and require voices from different disciplines...

so we encourage you to use your voice in class.