



MACH Annual Meeting 2023

- May 30 and 31st, 2023 ~9:00 am-4:30 pm
@ [RU Camden Campus Center](#) - Multipurpose Room
 - June 1st - Optional field trip around Philadelphia - morning only
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Meeting Purpose:

- To learn more about our fellow MACH team members
 - To learn from one another/appreciate other fields of study/perspectives
 - To discuss/refine our integrative and sub-projects
 - Draw on the expertise of our CSAP/EAB advisory members
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MACH Annual Meeting 2023

Day 1: May 30th, 2023 (MACH Team and EAB members)

@ [RU Camden Campus Center](#) - Multipurpose room

8:30 am Pre-meeting networking

9:00 am - Welcome

- Michael Palis, Interim Vice Chancellor, Sponsored Research Rutgers-Camden
- Robert Kopp, MACH Director
- Meeting Purpose and Agenda Review - Lisa Auermuller, MACH Administrative Director

9:30 am - Get to Know One Another - Sharing Your Professional Journey

10:15am - Break

10:30 am - MACH's Pillars - What is our Foundation?

12:00 pm - Lunch (Provided)

1:00 pm - MACH Retrospective - the 4L's: Loved, Loathed, Longed For, Learned

2:15pm - Break

2:30 pm - Team or Sub - Project Deep Dive Time

- ***Option 1: Conceptual model development for "Stakeholder values in research design" circle***

Led by: Casey Helgeson

Description: The work of this circle involves developing conceptual models (boxes-and-arrows diagrams) of study systems to be used for analysis of stakeholder inputs and subsequently for values-driven design of decision analyses. Developing such conceptual models requires iteration and discussion across disciplines and sub-teams. I'd like to use this breakout session for an in-person discussion and iteration on the conceptual model we're currently developing in support of decision analyses based in Philly and possibly other MACH research sites. I will bring hard copies of our current draft conceptual model, and we'll talk about them and draw on them. Everyone is extremely welcome, but this session will be most relevant for MACH-ers linked to the following circles: (1) Stakeholder values in research design, (2) Equity and uncertainty in BCA.

- ***Option 2: Meet in Small Groups on Your Own***

4:00 pm - Report Back from Concurrent Sessions

Day 1 Reflections/Thoughts

4:30 pm - Meeting Concludes

Evening: Informal networking



MACH Annual Meeting 2023

Day 2: May 31st Morning Session (MACH team, EAB, CSAP, Academic Leadership)

@ [RU Camden Campus Center](#) - Multipurpose Room

8:30 am Pre-meeting networking

9:00 am - **HYBRID Meeting**

Link for remote attendees to join:

<https://rutgers.zoom.us/j/94831761531?pwd=VnExc29UK0Y5WDc4T1dBcVdlaU5Ydz09>

Welcome

- Prabhas Moghe - Executive VP Academic Affairs, Rutgers University
- MACH: Year 2 in Review - Robert Kopp - Director, MACH

9:45 am - **HYBRID Meeting**

Student/Postdoc Ignite Session

- **Modeling Physical Coastal Hazards**
 - Sea-Level Rise Variability in the MACH Region | William Coronel
 - Estuarine Bathymetric Changes and Flooding | Md Nurul Kadir
 - A Joint Probability Approach for Compound Flood Delineation | Avi Gori
 - A Multivariate Statistical Framework to Derive Boundary Conditions for Compound Flood Modelling in Gloucester City, NJ | Pravin Maduwantha
 - Street-level Flood Modeling | Sara Santamaria Aguilar
 - Storm Surge Modeling | Amirhosein Begmohammadi
 - Modeling Extratropical Cyclones and Associated Flooding in MACH Region | Diana Apoznanski
 - Assessing Tropical Cyclone – Heatwave Joint Hazards: A Statistical Downscaling Approach | Dazhi Xi
 - TC-Blackout-Heatwave Compound Hazard: Risk and Mitigation | Kairui Feng
- **Decision-making in the Face of Flooding**
 - "Observing" the Decision Making Process of Households Exposed to Sea-Level Rise | Sara Belligoni
 - Multi-Objective Robust Decision Making to Decide Whether to Stay in Place or Leave | Prabhat Hegde

- Urban Digital Twin Based Decision Support for Housing Rebuilding Choices in Catastrophically Flooded Communities | Holly Josephs
- **Case Studies from the NJ Coast**
 - Conflict Over Cost Share in Coastal Adaptation: Findings from the Barrier Islands | Laura Geronimo
 - Centennial Barrier-inlet Evolution and Coastal Management: Lessons from Barnegat Inlet, NJ | Shane Nichols-O'Neill
 - Safe Evacuation and Rescue in Catastrophic Urban Flooding Environments – Case study: Manville During Ida 2021 | Yifan Wang
- **Broader Social Context**
 - Challenges and Concerns of Immigrants During Disasters | Yvonne Appiah Dadson
 - Impacts and Consequences of COVID-19 on Mental Health | Natasha Edwards

10:45am - Break

11:00 am Concurrent Sessions

MACH Executive Council, Team leads, and Senior Personnel with CSAP

- Facilitated by Jeanne Herb

- CSAP perspectives
- What should be on the MACH Horizon?

Student and Postdoctoral Leadership Council (SPLC)

- Facilitated by: Adam Pollack, Laura Geronimo and Katie Parrish
Interested in getting to know other students and postdocs in MACH? Join the first in-person meeting of the Student Postdoc Leadership Council! We'll have fun activities and a chance to reflect on the past year and next steps for our group. The full session is open to all students, postdocs, and early career professionals affiliated with MACH.

12:00 pm - Lunch Provided

Day 2: May 31st Afternoon Session (MACH Team and EAB)

1:00 pm - Team or Sub - Project Deep Dive Time

- **Option 1: Equity and Deep Uncertainty in Benefit-Cost Analyses (Gloucester City, NJ)**
Led by: Adam Pollack
Description: In this participation-oriented session, Adam will lead attendees through a short presentation that clarifies the role of the decision-analysis team in the larger context of complex

climate adaptation decision-making and focuses on the decision problem of reducing residential losses from flooding. Then, he will facilitate a group conversation to help 1) build a shared understanding of the challenges, choices, and opportunities that different decision-makers face, and 2) identify the information needs of different decision-makers to determine what our research currently addresses, and what is currently out of scope that MACH can work towards to meet our community partners' needs.

- **Option 2: *Statistical analysis of inundation model boundary conditions***

Led by: Pravin Maduwantha and Avi Gori

Description: The work of this circle involves developing boundary conditions for inundation models based on statistical frameworks. The available models and their applicability for the current work will be discussed.

The session is open to everyone. It will be most relevant for the Flood modeling circle.

- **Option 3: *Meet in Small Groups on Your Own***

2:30 pm - Break

2:45 pm - Report Back from Concurrent Sessions

MACH Governance Proposal Check-In

MACH Visioning/Looking Ahead - What we heard from the CSAP

4:00 pm - Wrap up/Closing/Reflection

4:30 pm - Meeting Conclude

Evening: Informal networking



DAY 3: June 1st, 2023 (Optional Field Trip)

8:30am - Meet at Hotel for 3 hour bus tour.

We will be making two stops – one to the Schuylkill River Trail in Center City and one to FDR Park. Depending on timing and traffic, we will drive ‘through’ Gloucester City on our way back to the hotel at the end of the trip. Please message Zoe Linder-Baptie via slack or email (zml12@ejb.rutgers.edu) with any questions.

Itinerary:

- 8:45am – Bus leaves Hotel and goes to Walnut Street Bridge via 676
- 9:15am – Bus stops on Walnut Street Bridge to let passengers off.
- 10:10am – Bus leaves Walnut St Bridge to go to FDR Park.
- 11:00am – Bus leaves FDR park and possibly returns to Hotel via Walt Whitman Bridge so that we drive ‘through’ Gloucester City. If we are ahead of schedule and no one is pressed for time, we could consider getting off of the highway.
- 11:30 – Bus arrives back at Hotel.

See this link for our route: <https://goo.gl/maps/L72VySwND5FGWDLm8>

Important to note:

- There will be a restroom available by the River Trail at our first stop and two possible restrooms (I cannot confirm they will be open) in FDR Park at our second stop.
- We will not be providing breakfast or lunch on Thursday but there will be snacks available on the bus.
- There are a few flights of stairs we will navigate to get down to the river from Walnut Street bridge and then back up to the bus and we may walk on rough ground when we are in FDR park. Please wear shoes and clothes you are comfortable being outside and moving in.
- *Please coordinate directly with Zoe Linder-Baptie via slack or email (zml12@ejb.rutgers.edu) if you do not want to return to the hotel and would prefer to leave the field trip during the 1st or 2nd stop to head out of town.*