



STC Site Visit: Learning the Earth with Artificial Intelligence + Physics (LEAP)

Tuesday, September 22 – Wednesday, September 23, 2020



TUESDAY, SEPTEMBER 22

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10:00 a.m. – 10:30 a.m.	Welcome + Introductions Director's Overview: LEAP Rationale + Goals Pierre Gentine, Lead PI, Center Director + Diversity Co-Director Associate Professor of Earth + Environmental Engineering, Columbia University
10:30 a.m. – 10:45 a.m.	Question + Answer
10:45 a.m. – 11:00 a.m.	Research Overview Galen McKinley, Co-PI + Deputy Director Professor of Earth + Environmental Sciences, Columbia University
11:00 a.m. – 11:10 a.m.	Question + Answer
11:10 a.m. – 11:25 a.m.	Data-Rich Research Carl Vondrick, Data Science Director Assistant Professor of Computer Science, Columbia University Laure Zanna, Geoscience Director Professor of Mathematics + Atmospheric Science, New York University
11:25 a.m. – 11:35 a.m.	Question + Answer
11:35 a.m. – 11:50 a.m.	Moderate Data Research Carl Vondrick, Data Science Director Assistant Professor of Computer Science, Columbia University Laure Zanna, Geoscience Director Professor of Mathematics + Atmospheric Science, New York University
11:50 a.m. – 12:00 p.m.	Question + Answer
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12:00 p.m. – 12:20 p.m.	NSF Executive Session/ Break



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- 12:20 p.m. – 12:35 p.m.** **Data-Poor Research**
Tian Zheng, Co-PI, Chief Convergence Officer + Education Director
Professor + Chair of Statistics, Columbia University
- Galen McKinley, Co-PI, Deputy Director
Professor of Earth + Environmental Sciences, Columbia University
- 12:35 p.m. – 12:45 p.m.** **Question + Answer**
- 12:45 p.m. – 1:05 p.m.** **Shared Experimental Facilities: LEAPangeo**
Ryan Abernathy, Co-PI + Data + Computation Director
Associate Professor of Earth + Environmental Sciences, Columbia University
- 1:05 p.m. – 1:15 p.m.** **Question + Answer**
- 1:15 p.m. – 1:30 p.m.** **ESM Coupling + Integration**
David Lawrence, NCAR Model Development Liaison
Senior Scientific Section Head, Climate + Global Dynamics Laboratory
National Center for Atmospheric Research
- 1:30 p.m. – 1:40 p.m.** **Question + Answer**
- 1:40 p.m. – 1:50 p.m.** **Facilities + Physical Infrastructure**
Galen McKinley, Co-PI, Deputy Director
Professor of Earth + Environmental Sciences, Columbia University
- 1:50 p.m. – 2:00 p.m.** **Question + Answer**

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- 2:00 p.m. – 2:30 p.m.** **NSF Executive Session/ Break**

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- 2:30 p.m. – 3:00 p.m.** **Integrating Research + Education**
Tian Zheng, Co-PI, Chief Convergence Officer + Education Director
Professor + Chair of Statistics, Columbia University
- 3:00 p.m. – 3:15 p.m.** **Question + Answer**



3:15 p.m. – 3:45 p.m.

Developing Human Resources + Broadening Participation

Courtney Cogburn, Co-PI, Chief Equity Officer + Knowledge Transfer Director
Associate Professor of Social Work, Columbia University

Pierre Gentine, Lead PI, Center Director + Diversity Co-Director
Associate Professor of Earth + Environmental Engineering, Columbia University

3:45 p.m. – 4:00 p.m.

Question + Answer

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4:00 p.m. – 4:30 p.m.

NSF Executive Session/ Break

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4:30 p.m. – 4:45 p.m.

Corporate Engagement + Partnerships

Vanessa Burbano, Corporate Engagement Director
Assistant Professor of Management, Columbia University

4:45 p.m. – 4:53 p.m.

Question + Answer

4:53 p.m. – 5:08 p.m.

Public Engagement + Partnerships

Andrew Revkin, Public Engagement Director
Director, Initiative on Communications + Sustainability, Columbia University

5:08 p.m. – 5:15 p.m.

Question + Answer

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NSF, Site Visit Team, Lead PI + Co-PIs: Stay on Main Zoom

Other LEAP Team: [Click Here](#)

5:15 p.m. – 5:45 p.m.

Administration + Management

Pierre Gentine, Lead PI, Center Director + Diversity Co-Director
Galen McKinley, Co-PI + Deputy Director
Ryan Abernathy, Co-PI + Data + Computation Director
Courtney Cogburn, Co-PI, Chief Equity Officer + Knowledge Transfer Director
Tian Zheng, Co-PI, Chief Convergence Officer + Education Director

5:45 p.m. – 6:15 p.m.

Question + Answer

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6:15 p.m. – 6:30 p.m.

Wrap-Up



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6:30 p.m. – 7:15 p.m. NSF Executive Session/ Break

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7:15 p.m. – 7:35 p.m. Critical Feedback + List of Questions

7:35 p.m. NSF + Site Visit Team Adjourn
LEAP Team Develops Responses to Critical Feedback



WEDNESDAY, SEPTEMBER 23

NSF, Site Visit Team + Institutional Leadership: [Click Here](#)
LEAP Team: [Click Here](#)

10:00 a.m. – 11:00 a.m. NSF Meeting with Partner Institution Leadership

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11:00 a.m. – 12:00 p.m. Summary/ Proposing Team's Response to Critical Feedback

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12:00 p.m. – 6:00 p.m. Site Visit Team Prepares Site Visit Report

6:00 p.m. Adjourn

