

## Dagstuhl Seminar 26212: Preliminary Schedule

<https://www.dagstuhl.de/en/seminars/seminar-calendar/seminar-details/26212>

*Note to participants: Please avoid conference-style presentations of past results. We ask that lightning talks focus on open problems, current insights, and possible future developments, while the longer talks should ideally be tutorial-style overviews.*

### Sunday, May 17: Arrival & Networking

- **6:00 PM:** Dinner (Self-service buffet)
- **7:00 PM – 9:00 PM:** Informal Meet & Greet / Academic "Speed Dating"

### Monday, May 18:

- **7:30 – 8:45 AM:** Breakfast
- **9:00 – 9:30 AM:** Welcome, Organizer Introductions, and Seminar Goals
- **9:30 – 10:15 AM: Framing Talk (Applications & Climate):** Karen McKinnon (30min talk + 15min Q&A)
- **10:15 – 10:45 AM:** Coffee Break
- **10:45 – 11:30 AM: Overview Talk (Earth System Science):** Niklas Boers (30min talk + 15min Q&A)
- **11:30 – 12:15 PM: Lightning Talks Part 1: AI & Applications** (5 mins each, plus discussion at the end)
  - David Rolnick
  - Esther Rolf
  - Konstantin Klemmer
  - Yuki Asano
  - Pratik Nag
- **12:15 – 1:00 PM:** Lunch
- **1:00 – 1:15 PM: Group Picture**
- **1:15 – 3:00 PM:** Plenary Brainstorming: *Charting the Future of Spatial AI in Climate Science*
- **3:00 – 3:45 PM:** Coffee & Cake Break
- **3:45 – 4:30 PM: Framing Talk (Generative AI):** Claire Monteleoni (30min talk + 15min Q&A)
- **4:30 – 5:30 PM: Lightning Talks Part 2:** (5 mins each, plus discussion at the end)
  - Nicolas Bianco
  - Philippe Naveau
  - Matthias Katzfuss
  - Joe Guinness
  - Alexandra M. Schmidt
  - Michael Scheuerer
- **6:00 PM:** Dinner

### Tuesday, May 19:

- **7:30 – 8:45 AM:** Breakfast
- **9:00 – 10:15 AM:** Plenary Discussion: *Identifying Joint Collaborations. (Dedicated time to pitch, discuss, and outline potential articles that could be written as joint collaborations among participants.)*
- **10:15 – 10:45 AM:** Coffee Break
- **10:45 – 11:30 AM: Lightning Talks Part 3: Methodological Frontiers & Simulation (5 mins each, plus discussion at the end)**
  - Raphael Huser
  - Mikael Kuusela
  - Brian Groenke
  - Julia Walchessen
  - Yawen Guan
- **11:30 – 12:15 PM:** Collaboration Time: Break into small working groups based on the morning's joint-article pitches.
- **12:15 – 1:00 PM:** Lunch
- **1:00 – 3:00 PM:** Working Groups (continued): Translating across disciplines and outlining collaborative open problems.
- **3:00 – 3:45 PM:** Coffee & Cake Break
- **3:45 – 5:30 PM: Group Presentations:** Each working group briefly presents their collaborative results, ideas, or article outlines in front of all seminar participants for feedback.
- **6:00 PM:** Dinner

### Wednesday, May 20:

- **7:30 – 8:45 AM:** Breakfast
- **9:00 – 10:15 AM:** Final Plenary: Synthesizing notes for the JABES special issue.
- **10:15 – 10:45 AM:** Coffee Break
- **10:45 – 12:15 PM:** General Conclusion: Lessons learned, immediate next steps for the viewpoint paper and special issue, and closing remarks.
- **12:15 – 1:00 PM:** Lunch & Departure

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### Call for Papers

Special issue on “Empowering Climate Science with Spatial AI” to appear in the *Journal of Agricultural, Biological and Environmental Statistics (JABES)*

This special issue will highlight contributions of spatial AI to climate research presented at the 2026 Dagstuhl Seminar. Papers should fit the [Aims and Scope of JABES](#), which may include either new spatial AI methodology motivated by climate applications or sophisticated applications of spatial AI to authentic climate science problems. Submissions will undergo the

standard rigorous peer review process of the journal, and are limited to authors who presented a talk at the workshop..

**Guest Editors:** Matthias Katzfuss (University of Wisconsin–Madison), Nadja Klein (Karlsruhe Institute of Technology), Brian Reich (North Carolina State University)

**Submission process:** Papers should be submitted through the JABES website following the journal's submission guidelines

**Tentative Timeline:**

Call for papers issued: May, 2026

Submission deadline: September 1, 2026

First round of reviews completed: December, 2026

Second submission: February, 2027

Reviews completed: May, 2027

Publication of special issue: Late 2027