

SCINet and AI COE Fellows Conference 2021

Conference Webpage: <https://scinet.usda.gov/opportunities/fellowsconference>

Register for Zoom Information: <https://us06web.zoom.us/join/join?pwd=UzZlUjF67VMV-2QO>

Agenda: November 9th, 2021

9:30am to 9:45am ET	Welcome with Dr. Debra Peters, Acting Science Information Officer and Dr. Steve Kappes, Associate Administrator. <i>Moderator: Alicia Foxx</i>
9:45am-11:15pm ET	Postdoctoral Fellows of the Big Data cohort present their innovative research. <i>Moderator: Melanie Kammerer</i> <i>9:45am Kerrie Geil- Selecting climate projections for your research based on climate model performance metrics</i> <i>10:00am Michael Alcorn- Deep learning approaches for modeling spatiotemporal dynamics of a livestock disease</i> <i>10:15am Amy Hudson- Drivers of continental-scale climate and resulting dynamics in agro-ecosystems and vector-borne disease</i> <i>10:30am Melanie Kammerer- Putting flowers on the map: quantifying landscape floral resources for bees</i> <i>10:45am Shawn Taylor- Deep learning models for identifying crop and field attributes from near surface cameras</i> <i>11:00am Lucas Heintzman- Examining land cover dynamics of Chihuahuan Desert rangelands using imagery</i>
11:15am-11:20am ET	Break
11:20am-12:20pm ET	Postdoctoral Fellows of the Big Data cohort present their innovative research. <i>Moderator: Keo Corak</i> <i>11:20am Jennifer Chang- Designing and automating workflows or systems</i> <i>11:35am Keo Corak- Breeding Insight OnRamp: Lessons from the first five months</i> <i>11:50am Alicia Foxx- Variability accounting methods in metagenomic and amplicon meta-analyses</i> <i>12:05pm Andrew Oliver- Diet, lifestyle, and microbiome predictors of antimicrobial resistance in a healthy US cohort</i>
12:20pm-12:55pm ET	Time for National Program Leaders and Research Leaders to reflect and discuss what they get excited about from listening to the Fellows. <i>Moderators: Andrew Oliver and Shawn Taylor</i> <i>Participants: Jane Johnson, Tim Rinehart, Brian Scheffler</i>
12:55pm-1:00pm ET	Break
1:00pm-2:00pm ET	Guest Speaker: Dr. Daniel Ferguson, Director, Climate Assessment for the Southwest (CLIMAS), Assistant Professor, Department of Environmental Science, University of Arizona, Tucson, AZ. Building and sustaining successful inter- and transdisciplinary research collaborations followed by a Fellow guided open discussion with Research Leaders, Grand Challenge leaders, and scientists. <i>Moderator: Kerrie Geil</i> <i>Participants: Dan Ferguson, Justin Derner, Amanda Hulse-Kemp, Bill Kustas, Doreen Ware</i>
2:00pm-2:15pm ET	End of day remarks. <i>Moderator: Michael Alcorn</i>

Agenda: November 10th, 2021

10:45am-11:00am ET	Opening remarks. <i>Moderator: Michael Alcorn</i>
11:00am-12:00pm ET	Organizational Structure and Matrix Management. A Fellow-moderated panel discussion with input from National Program Leaders, Area Directors, and Research Leaders. <i>Moderator: Michael Alcorn</i> <i>Participants: David Bjornberg, Kim Cook, Mike Grusak, Benjamin Rosenthal, Teferi Tsegaye</i>
12:00pm-1:00pm ET	SY Positions in the Age of Big Data. A Fellow moderated panel discussion about the intersection between the analytics revolution and talent development including National Program Leaders and Research Leaders. <i>Moderator: Lucas Heintzman</i> <i>Participants: Sarah Beebout, Chad Boyd, Larry Chandler, Dawn Gundersen-Rindal, Brian Scheffler, Kenneth Sudduth, Peter Vadas</i>
1:00pm-1:30pm ET	Break
1:30pm-3:00pm ET	Onboarding Challenges Working Group. Discuss mentor preparation and administrative coordination to improve the ORISE Big Data Cohort Experience. Working group to include Fellows, ORISE representative, ORISE mentors, and USDA Post-Doctoral Committee representative. <i>Moderator: Lucas Heintzman</i> <i>Participants: Kristin Duffield, Chelsea Gibson, Matthew Hillyer, Adam Rivers, Andrew Severin</i>
3:00pm-3:30pm ET	Closing Remarks. <i>Moderator: Alicia Foxx</i>

Participation Guidelines

- **Respect and awareness:** The discussions include participants representing a diversity of cultures, geographies, languages, perspectives, and interests. All participants are encouraged to be aware of, respectful of, and open to this diversity when sharing information and points.
- **Good faith:** All participants are asked to take ownership in fostering inclusive and productive conversations with the intent to promote shared understanding and dialogue.
- **Share the “floor”:** Please adhere to presentation time limits to allow opportunity for group discussion; please be mindful of comment and question length so as to share the opportunity for dialogue with other participants.
- **Privacy:** To promote open engagement, please use discretion in characterizing the dialogue externally. The workshop follows the Chatham House rule, meaning that participants may describe the topics of discussion and who participated, but should not attribute comments to individual persons or organizations that made them. Sessions will not be recorded. Chatham House rule also applies to social media - no direct quotes or attributions.
- **Zoom etiquette:** Please turn off video and use mute when in plenary (if you are not a speaker or panelist for that session). Please turn on video and audio in breakouts or when asking a question. Please use chat, respectfully, to offer reflections and information to enrich the dialogue.