SCINet and AI COE Fellows Conference 2021

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

**Agenda: November 9th, 2021**

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| **9:30am to 9:45am ET** | Welcome with Dr. Debra Peters, Acting Science Information Officer and Dr. Steve Kappes, Associate Administrator |
| **9:45am-11:15pm ET** | Fellows of the Big Data cohort present their innovative research. Moderator: Melanie Kammerer  *9:45am Kerrie Geil- Selecting climate projections for your research based on climate model performance metrics*  *10:00am Michael Alcorn- What can AI do for ag?*   *10:15am Amy Hudson- Drivers of continental-scale climate and resulting dynamics in agro-ecosystems and disease*  *10:30am Melanie Kammerer- Putting flowers on the map: quantifying landscape floral resources for bees*  *10:45am Shawn Taylor- Deep learning models for identifying crop and field attributes from near surface cameras*  *11:00am Lucas Heintzman- Examining land cover dynamics of Chihuahuan Desert rangelands using imagery* |
| **11:15am-11:20am ET** | Break |
| **11:20am-12:20pm ET** | Fellows of the Big Data cohort present their innovative research. Moderator: Keo Corak  *11:20am Jennifer Chang- Designing and automating workflows or systems*  *11:35am Keo Corak- Breeding Insight OnRamp: Lessons from the first five months*  *11:50am Alicia Foxx- Variability accounting methods in metagenomic and amplicon meta-analyses*  *12:05pm Andrew Oliver- Diet, lifestyle, and microbiome predictors of antimicrobial resistance in a healthy US cohort* |
| **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. Moderators: Andrew Oliver and Shawn Taylor  *Participants confirmed: Brian Scheffler, Tim Rinehart, Jane Johnson* |
| **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. Moderator: Kerrie Geil  *Participants: Dan Ferguson, Bill Kustas, Gloria DeGrandi-Hoffman, Justin Derner* |
| **2:00pm-2:10pm ET** | End of day remarks |

**Agenda: November 10th, 2021**

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| **10:45am-11:00am ET** | Opening remarks |
| **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. Moderator: Michael Alcorn  *Participants: Kim Cook, David Bjornberg, Teferi Tsegaye, Mike Grusak-Center Director, Benjamin Rosenthal* |
| **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. *Moderator: Lucas Heintzman*  *Participants: Sarah Beebout, Chad Boyd, Peter Vadas, Kenneth Sudduth, Larry Chandler, Dawn Gundersen* |
| **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. Moderator: Lucas Heintzman  *Participants confirmed: Chelsea Gibson, Kristin Duffield, Andrew Severin, Adam Rivers, Matthew Hillyer* |
| **3:00pm-3:30pm ET** | Closing Remarks |