OneHealth Codeathon @ USF 2021:

**Harnessing data-sciences against pandemics**

February 24-26, 2021

**The OneHealth Codeathon at USF** serves to bring together a diverse set of researchers and clinicians, including students, faculty, and postdocs, for an intense 3-day data-science focused codeathon.

**Transdisciplinary teams** will integrate their skillsets in order to solve emerging problems related to human and environmental health in a global setting.

**Virtual Platform:** The OneHealth Codeathon at USF will be held virtually using Airmeet.

**Expectations**:Each team — consisting of specialists in data sciences, microbiomes, health and social sciences — will investigate pandemic initiation, spread, and public health interventions by integrating genomics, clinical data, geoscience, modeling, and social sciences.

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| **Publications:**  Active participants will be included on any publications resulting from the 3-day event. | **Open-Source Prototypes:** Each team will produce a public GitHub repository for their work which will enable dissemination and future development. | **Long-Term Collaborations:**  New transdisciplinary research networks will form and continue to collaborate on research grants and publications after the event ends. |

**General Schedule**:The 3-day codeathon will begin the morning of Wednesday, February 24 with a Keynote Symposium establishing the event, its purpose, and the significance of the problems being investigated. Teams will initiate work on their projects Wednesday afternoon and will have the entirety of Thursday along with Friday morning to complete their work. Each team will present their work Friday morning and an award will be given based on the evaluations of an external review panel.

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February 24-26, 2021

**Wednesday, February 24**

9:00 – 9:15 am

Log in to Airmeet

9:15 – 9:30 am

Introductory remarks

Dr. Rays Jiang, Professor, USF Genomics Program

Dr. Jenna Oberstaller, Director, USF Omics Hub

9:30 – 10:00 am USF Keynote address

*Data-driven, systems-modelling approaches to forecasting Pandemics*

Dr. Edwin Michael, Professor

Center for Global Health Infectious Disease Research, USF

10:00 – 10:30 am GVN Keynote address

*Early warning system for SARS-CoV-2 Variants of Concern*

Dr. Richard Scheuermann, Director

J. Craig Venter Institute at La Jolla Campus

10:30 – 11:15 am

Team meeting to prepare project-

proposal presentations

11:15 am – 12:30 pm

Project-Proposal Presentations –

Each team has 5 minutes to present their proposal

followed by 5 minutes for questions.

12:30 – 1:00 pm

Lunch Break

1:00 – 3:45 pm

Team Coding/Project-development

3:45 – 5:00 pm

Day one round up –

Each team gives a 5-minute update on progress

followed by 5 minutes for questions.

5:00 – 5:30 pm

Day One Closing Remarks – Dr. Christian Brechot

Senior Associate Dean for Research in Global Affairs, MCOM

Associate Vice President for International Partnerships and Innovation

Professor, Department of Internal Medicine President

President, Global Virus Network

**Thursday, February 25**

9:00 am – 12:00 pm

Team Coding/Project-development

12:00 – 1:00 pm

Lunch Break

1:00 – 3:30 pm

Team Coding/Project-development

3:30 – 5:00 pm

Day two round up –

Each team gives a 5-minute update on progress

followed by 5 minutes for questions.

**Friday, February 26**

9:00 am – 12:00 pm

Team Coding/Project-development

12:00 pm – 1:00 pm

Lunch Break

1:00 – 2:15 pm

Final presentations –

Each team gives a 10-minute presentation

followed by 10 minutes for questions.

2:15 – 2:30 pm

Judge Deliberation

2:30 – 2:40 pm

Event Wrap-up and closing remarks–

What are the next steps for a publication?

2:40 – 2:50 pm

Awards – Presented by the Judges

2:50 – 3:00 pm

Group and Team Pictures