

# NERCCS '18

## Young Researchers Pre-Conference Event

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### Workshop Details: Wednesday, 11 April, 2018

On the day before the NERCCS begins, we are hosting an event for PhD students and postdocs to meet one another, exchange research ideas, and learn from several invited researchers. This event will take place at the conference venue, starting at 9:00am (officially at 9:30 after introductions) on Wednesday, April 11th.

#### **09:00am-09:30am - Introductions**

Official introductions will start at 9:00am, after people have had time to show up, mingle, and finish coffee.

#### **09:30am-11:00am - *Learning* Complex Systems: Bruno Gonçalves**

During this session, we will learn from Bruno Gonçalves (New York University) about techniques for doing data science and Complex Systems research in Python—including useful methods in machine learning, network science and more.

11:00am-11:15am - Coffee Break

**11:15am-12:30pm - *Learning* Complex Systems: Bruno Gonçalves (cont.)**

#### **12:30pm-01:30pm - Lunch**

#### **01:30pm-02:30pm - *Teaching* Complex Systems: Panel Discussion**

After lunch, participants will listen to presentations and ask questions to a panel about what it's like to *teach* complex systems. The panel will include **Pamela Mischen, Andreas Pape, David Schaffer, Stephen Uzzo**, and **Hiroki Sayama**.

#### **02:30pm-03:30pm - *Learning* Complex Systems: Alfredo Morales**

We're lucky to have a second methods session in the afternoon—this time by Alfredo Morales (NECSI). Here, we will get exposure to how complex systems researchers use techniques for dimensionality reduction, as well as a session about how to properly understand power law statistics.

03:30pm-03:40pm - Coffee Break

**03:40pm-04:40pm - *Learning* Complex Systems - Alfredo Morales (cont.)**

#### **04:45pm-05:45pm - *Doing* Complex Systems: Closing Q&A**

After spending the day *learning* about complex systems and spending lunch *learning how to teach* complex systems, we will close the day with *doing* complex systems research. This session will focus on how to engage in interdisciplinary complex systems research, from collaboration to publication.

#### **06:00pm - Social Hour and Dinner in Binghamton**

Concluding a day of learning, we will get our first taste of the city with new friends.