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## Week 1, July 7 – 12, 2019

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### Sunday, July 7<sup>TH</sup>

6:30pm – 8:30

#### **Registration mixer with refreshments**

*WeatherTech Café in the C4C*

*Beer/Alcohol/Light Refreshments will be served*

### Monday, July 8<sup>TH</sup>

8:30 – 9:00

#### **Organizers**

*Welcome and School Introduction*

9:00 – 10:30

#### **S. Palmer**

*Neuro 1*

10:30 – 11:00

Coffee Break

11:00 – 12:30

#### **A. Nourmohammad**

*Quantitative trait evo 1*

12:30 – 13:45

Lunch

14:00 – 18:30

#### **Participant Introductions**

### Tuesday, July 9<sup>TH</sup>

9:00 – 10:30

#### **L. Mirny**

*3D Genomes and cancer 1*

10:30 – 11:00

Coffee Break

11:00 – 12:30

#### **L. Mirny**

*3D Genomes and cancer 2*

12:30 – 13:45

Lunch

14:00 – 15:30

#### **Seminar: Mimi Koehl**

*Moving through a turbulent environment: Embedding models in real-world data*

### Wednesday, July 10<sup>TH</sup>

9:00 – 10:30

**A. Nourmohammad**

*Quantitative trait evo 2*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**L. Mirny**

*3D Genomes and cancer 3*

12:30 – 13:45

Lunch

14:00 – 15:30

**S. Palmer**

*Neuro 2*

19:00 – 20:00

**Public Lecture: Leonid Mirny**

*Human Genome, now in 3D!, Duane Physics G1B30*

### Thursday, July 11<sup>TH</sup>

9:00 – 10:30

**S. Palmer**

*Neuro 3*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**A. Nourmohammad**

*Quantitative trait evo 3*

12:30 – 13:45

Lunch

14:00 – 15:30

**L. Mirny**

*3D Genomes and cancer 4*

### Friday, July 12<sup>TH</sup>

9:00 – 10:30

**A. Nourmohammad**

*Quantitative trait evo 4*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**S. Palmer**

*Neuro 4*

12:30 – 13:45

Lunch

14:00 – 15:30

**Seminar: Orit Peleg**

*Collective Ecophysiology and Physics of Honeybees*

19:00 – 21:30

**Catered dinner**

*11th Floor Commons Room*

*Beer/Alcohol/Light Refreshments will be served*

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**Week 2, July 15 – 19, 2019**

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**Monday, July 15<sup>TH</sup>**

9:00 – 10:30 **E. Katifori**  
*Living flow networks 1*

10:30 – 11:00 Coffee Break

11:00 – 12:30 **L. Manning**  
*Active living matter 1*

12:30 – 13:45 Lunch

14:00 – 15:30 **A. Seminara**  
*Fluid life 1*

**Tuesday, July 16<sup>TH</sup>**

9:00 – 10:30 **L. Manning**  
*Active living matter 2*

10:30 – 11:00 Coffee Break

11:00 – 12:30 **E. Katifori**  
*Living flow networks 2*

12:30 – 13:45 Lunch

14:00 – 15:30 **A. Seminara**  
*Fluid life 2*

**Wednesday, July 17<sup>TH</sup>**

9:00 – 10:30 **A. Seminara**  
*Fluid life 3*

10:30 – 11:00 Coffee Break

11:00 – 12:30 **E. Katifori**  
*Living flow networks 3*

12:30 – 13:45 Lunch

14:00 – 15:30 **L. Manning**  
*Active living matter 3*



**Thursday, July 18<sup>TH</sup>**

9:00 – 10:30

**L. Manning**

*Active living matter 4*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**A. Seminara**

*Fluid life 4*

12:30 – 13:45

Lunch

14:00 – 15:30

**D. Schwab**

*Machine Learning*

19:00-22:00

**Poster Session**

*11th Floor Commons Room*

*Beer/Alcohol/Light Refreshments will be served*

**Friday, July 19<sup>TH</sup>**

9:00 – 10:30

**E. Katifori**

*Living flow networks 4*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**D. Schwab**

*Machine Learning 2*

12:30 – 13:45

Lunch

14:00 – 15:30

**Seminar: William Bialek**

*RG-inspired approaches to the analysis of real neural networks*



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Week 3, July 22 – 26, 2019

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**Monday, July 22<sup>ND</sup>**

9:00 – 10:30 **A. Mugler**  
Sensing 1

10:30 – 11:00 Coffee Break

11:00 – 12:30 **D. Schwab**  
*Machine Learning 3*

12:30 – 13:45 Lunch

14:00 – 15:30 **M. Desai**  
*Evo 1*

**Tuesday, July 23<sup>RD</sup>**

9:00 – 10:30 **M. Desai**  
*Evo 2*

10:30 – 11:00 Coffee Break

11:00 – 12:30 **A. Mugler**  
Sensing 2

12:30 – 13:45 Lunch

14:00 – 15:30 **G. Berman**  
*Behavior 1*

**Wednesday, July 24<sup>TH</sup>**

9:00 – 10:30 **G. Berman**  
*Behavior 2*

10:30 – 11:00 Coffee Break

11:00 – 12:30 **M. Desai**  
*Evo 3*

12:30 – 13:45 Lunch

14:00 – 15:30 **D. Schwab**  
*Machine Learning 4*

16:00 – 17:30 **Seminar: Massimo Vergassola**  
*Learning to navigate amid uncertainties*



**Thursday, July 25<sup>TH</sup>**

9:00 – 10:30

**M. Desai**

*Evo 4*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**A. Mugler**

Sensing 3

12:30 – 13:45

Lunch

14:00 – 15:30

**G. Berman**

*Behavior 3*

**Friday, July 26<sup>TH</sup>**

9:00 – 10:30

**G. Berman**

*Behavior 4*

10:30 – 11:00

Coffee Break

11:00 – 12:30

**A. Mugler**

Sensing 4

12:30 – 13:45

Lunch

14:00 – 19:00

**Student Project Presentations**

