

# **Likelihood-Free Inference Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Danley Hsu: Estimating Exoplanet Occurrence Rates Using Approximate Bayesian Computation**

**Session Classification:** Session 2

Contribution ID: 2

Type: **not specified**

## **Pablo de Castro Manzano: INFERNO: Inference-Aware Neural Optimisation**

**Session Classification:** Session 2

Contribution ID: 3

Type: **not specified**

## **Tom Charnock: IMNN for dimensionality reduction**

**Session Classification:** Session 2

Contribution ID: 4

Type: **not specified**

## **Chieh-An Lin: Simulate a universe on your laptop**

**Session Classification:** Session 3

Contribution ID: 5

Type: **not specified**

## **Nesar Ramachandra: Suite of Gaussian Process emulators for cosmological inference problems**

**Session Classification:** Session 3

Contribution ID: 6

Type: **not specified**

## **Umberto Simola: Machine Learning Accelerated Likelihood-Free Event Reconstruction in Dark Matter Direct Detection**

*Monday, March 18, 2019 3:00 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 7

Type: **not specified**

## Kyle Cranmer

*Monday, March 18, 2019 9:30 AM (1 hour)*

**Session Classification:** Session 1



Contribution ID: 8

Type: **not specified**

## **George Papamakarios: Density estimation for LFI**

**Session Classification:** Session 1

Contribution ID: 9

Type: **not specified**

## **Jan-Matthis Luekmann: Statistical methods for mechanistic models in neuroscience**

**Session Classification:** Session 2

Contribution ID: 10

Type: **not specified**

## **Johann Brehmer: "Mining gold" from implicit models to improve likelihood-free inference**

**Session Classification:** Session 2

Contribution ID: 11

Type: **not specified**

## **Ann Lee: Validation of Emulators and Approximate Likelihood Models**

**Session Classification:** Session 2

Contribution ID: 12

Type: **not specified**

## **Stephen Feeney: TSZ PDF LFI**

*Tuesday, March 19, 2019 3:00 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 13

Type: **not specified**

## **Will Handley: Compromise-free Bayesian sparse reconstruction**

**Session Classification:** Session 3

Contribution ID: 14

Type: **not specified**

## **Henri Pesonen: ELFI - Engine for Likelihood-free Inference**

**Session Classification:** Session 3

Contribution ID: 15

Type: **not specified**

## **George Papamakarios: Density estimation for LFI**

*Monday, March 18, 2019 11:00 AM (1 hour)*

**Session Classification:** Session 2



Contribution ID: 16

Type: **not specified**

## **Johann Brehmer: "Mining gold" from implicit models to improve likelihood-free inference**

*Monday, March 18, 2019 12:00 PM (30 minutes)*

**Session Classification:** Session 2

Contribution ID: 17

Type: **not specified**

## Owen Thomas: BOLFI and LIFRE

*Monday, March 18, 2019 2:30 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 18

Type: **not specified**

## **Jan-Matthis Luekmann: Statistical methods for mechanistic models in neuroscience**

*Monday, March 18, 2019 2:00 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 19

Type: **not specified**

## Rajesh Ranganath

*Monday, March 18, 2019 4:00 PM (30 minutes)*

**Session Classification:** Session 4

Contribution ID: 20

Type: **not specified**

## Discussion Time

*Monday, March 18, 2019 4:30 PM (1 hour)*

**Session Classification:** Session 4

Contribution ID: 21

Type: **not specified**

## **Tom Charnock: IMNN for dimensionality reduction**

*Tuesday, March 19, 2019 9:30 AM (30 minutes)*

**Session Classification:** Session 1

Contribution ID: 22

Type: **not specified**

## **Pablo de Castro Manzano: INFERNO: Inference-Aware Neural Optimisation (REMOTE)**

*Tuesday, March 19, 2019 10:00 AM (30 minutes)*

**Session Classification:** Session 1

Contribution ID: 23

Type: **not specified**

## **Will Handley: Compromise-free Bayesian sparse reconstruction**

*Tuesday, March 19, 2019 11:00 AM (30 minutes)*

**Session Classification:** Session 2



Contribution ID: 24

Type: **not specified**

## **Ann Lee: Validation of Emulators and Approximate Likelihood Models**

*Tuesday, March 19, 2019 11:30 AM (30 minutes)*

**Session Classification:** Session 2

Contribution ID: 25

Type: **not specified**

## **Danley Hsu: Estimating Exoplanet Occurrence Rates Using Approximate Bayesian Computation**

*Tuesday, March 19, 2019 12:00 PM (30 minutes)*

**Session Classification:** Session 2

Contribution ID: 26

Type: **not specified**

## **Nesar Ramachandra: Suite of Gaussian Process emulators for cosmological inference problems**

*Tuesday, March 19, 2019 2:00 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 27

Type: **not specified**

## **Chieh-An Lin: Simulate a universe on your laptop**

*Tuesday, March 19, 2019 2:30 PM (30 minutes)*

**Session Classification:** Session 3

Contribution ID: 28

Type: **not specified**

## **Henri Pesonen: ELFI - Engine for Likelihood-free Inference**

*Tuesday, March 19, 2019 4:00 PM (30 minutes)*

**Session Classification:** Session 4

Contribution ID: 29

Type: **not specified**

## Discussion Time

*Tuesday, March 19, 2019 4:30 PM (1h 30m)*

**Session Classification:** Session 4