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IWOBI 2018  
Costa Rica

International Work Conference on Bioinspired Intelligence

DATE:  
July 17, 2018

LOCATION:  
National Center for High Technology

## Workshop on Python & MPI

**Time and Location:** Tuesday July 17<sup>th</sup>, National Center for High Technology  
Find the location here: <https://goo.gl/maps/ydTU1Sc3k2r>  
This event is free of charge and hosted in the context of IWOBI 2018.  
Registration form: <https://goo.gl/forms/Vi3pVZXyZVXlh8x03>

This introductory workshop aims at teaching researchers about problem solving using computational tools, specifically, the Python programming language and its integration with the Message Passing Interface (MPI) and scientific libraries. MPI is the de facto standard for parallel programming in distributed environments.

Requirements: Basic programming experience with Python. We strongly encourage attendees to bring their own laptop.

### SPEAKER

Daniel Alvarado is a research assistant at the National Center for High Technology, has also worked as a research assistant for the Center for Research in Information Technology at Universidad de Costa Rica (UCR). His background is in Computer Science at the UCR and is currently on the Masters program of the Computer Science school at UCR. His research interests are computational physics, simulation and high performance computing.



### PROGRAM

#### 8 am – 12 md. First Module:

- Introduction
  - Message passing paradigm
  - MPI4Py overview
- Point to point communication
  - Blocking
  - Non-blocking

#### 1 pm – 5 pm: Second Module:

- Collective communication operations
- Practice session

For more information please contact: [dalvarado@cenat.ac.cr](mailto:dalvarado@cenat.ac.cr)