Glass Informatics Workshop at BAM

Prof Daniel R Cassar

Ilum School of Science









- 1 About the speaker
- 2 Workshop overview
- 3 Acknowledgments

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Who?

Background

- Assistant Professor at the Ilum School of Science
- Ph.D. In Materials Science and Engineering
 - Advisor: Prof. Edgar D. Zanotto
- Developer of GlassPy, GlassNet, GLAS, and ViscNet
- Open Science enthusiast





Where?















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Topics that I will cover

- Brief introduction of the speaker [you are here]
- 2 Python programming language
 - Python basics
 - 2 Numpy
 - 3 Pandas
 - 4 Seaborn
- Neural Networks
 - Neural Networks basics
 - GlassNet and ViscNet
 - 3 Creating and training Neural Networks
 - 4 Strategies for optimizing Neural Networks
- SciGlass data with GlassPy



Python environment





Code and reading resourses

 $\verb|https://github.com/drcassar/bam2024|$



A quick note

We will use and explore some features of GlassPy.

GlassPy is a free software Python module currently under development.

GlassPy is a labor of love, developed mostly in my spare time with the hope that it can be useful to the glass community. Please note that it comes without warranty.



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