Doctoral Project Proposal:
Bioinformatics Algorithms for Datacenter Networks

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Abstract. *This doctoral project proposal aims to present an overview of a research intended to be*

1. Introduction

Bioinformatics is a Big Data science [Stephens et al. 2015].

Data achieves a big amount, using the network to transfer is unpractical [Fricke and Rasko 2014].

Processing should be brought to the data [Schadt et al. 2010].

2. Objectives

3. Concepts and State of Art

4. Potential Scientific Contributions

References

Fricke, W. F. and Rasko, D. A. (2014). Bacterial genome sequencing in the clinic: bioinformatic challenges and solutions. *Nature Reviews Genetics*, 15(1):49–55.

Schadt, E. E., Linderman, M. D., Sorenson, J., Lee, L., and Nolan, G. P. (2010). Computational solutions to large-scale data management and analysis. *Nature Reviews Genetics*, 11(9):647–657.

Stephens, Z. D., Lee, S. Y., Faghri, F., Campbell, R. H., Zhai, C., Efron, M. J., Iyer, R., Schatz, M. C., Sinha, S., and Robinson, G. E. (2015). Big data: astronomical or genomical? *PLoS Biol*, 13(7):e1002195.