

## **Position/Status**

Coordinator of Information Systems Program

College Assistant Professor in Information Systems

## **E-mail Address**

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## **Phone**

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## **Research Interests**

Data Science, Machine Learning, Graph theory

## **Qualifications**

- PhD in information and Computing Sciences (University of Yangzhou - China)
- PGD in Mathematics ( African Institute of Mathematical Sciences – South Africa)
- BSc in Mathematics and Computer Sciences (University of Khartoum - Sudan)

## **Work Experiences**

- Post-doctoral researcher in Bioinformatics (University of Yangzhou - China)
- Assistant Professor in Computer Sciences (University of Yangzhou - China)
- Assistant Professor in Mathematics (University of Khartoum - Sudan)
- Cryptography Researcher (University of Khartoum - Sudan)

## **Profile**

I am a University Assistant Professor in Information and Computing Sciences. My research interests include data science and machine learning. I work on analysing dynamic data for prediction target, in particular, predicting future links on dynamic networks. I also work on bioinformatics by analysing biological networks. My research includes detecting essential proteins in Protein-Protein Interactions (PPI) network, detecting protein complexes, as well as predicting new interactions in PPI network.

## **Research Projects**

- Study Link Prediction Problem in Dynamic Complex Networks
- Analyse Protein-Protein Interaction Networks
- Study optimization problems based on graph theory

## Articles

Nahla Mohamed Ahmed, Ling Chen, Bin Li, Wei Liu, and Caiyan Dai, A random walk-based method for detecting essential proteins by integrating the topological and biological features of PPI network, *Soft Computing*, Pages 1-21 (2021).

Nahla Mohamed Ahmed Ling Chen, Yulong Wang, Bin Li, Yun Li, and Wei Liu, Deep Eye: Link prediction in dynamic networks based on non-negative matrix factorization, *BIG DATA MINING AND ANALYTICS*, Vol.1, Issue 1, Pages 19-33 (2018),  
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8268733>.

Nahla Mohamed Ahmed, Ling Chen, Yulong Wang, Bin Li, Yun Li, and Wei Liu, Sampling based algorithm for link prediction in temporal networks, *Information Sciences*, Vol.374, Issue 4, Pages 1-14 (2016), SCI Indexed.  
<https://www.sciencedirect.com/science/article/pii/S0020025516308507>.

Nahla Mohamed Ahmed and Ling Chen, An Efficient Algorithm for Link Prediction in Temporal Uncertain Social Networks, *Information Sciences*, Vol.331, Pages120-136 (2016), SCI Indexed.  
<https://www.sciencedirect.com/science/article/pii/S0020025515007707>.

Nahla Mohamed Ahmed and Ling Chen, Link prediction in dynamic social networks by integrating different types of information, *Applied Intelligence*, Vol.42, Issue 4, Pages 738-750 (2014), SCI Indexed. <https://rd.springer.com/article/10.1007%2Fs10489-014-0631-0>.

Nahla Mohamed Ahmed and Ling Chen, New Approaches for Link Prediction in Temporal Social Networks, *Computer Modeling and New Technologies*, Vol.18, Issue 2, Pages 87-94 (2014),  
[http://www.tsi.lv/sites/default/files/editor/science/Research\\_journals/Computer/2014/V2/art13\\_cmnt1802-51.pdf](http://www.tsi.lv/sites/default/files/editor/science/Research_journals/Computer/2014/V2/art13_cmnt1802-51.pdf)

Nahla Mohamed Ahmed and Ling Chen, Link Prediction in Dynamic Social Networks by Integrating Community Information, *DEstechPublicationInc.,2014 International Academic Conference of the Information Science and Communication Engineering (ISCE 2014)*.