

Fanchi Meng

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Education

2014 - present	PhD student in Software Engineering & Intelligent Systems Department of Electrical and Computer Engineering University of Alberta Edmonton, Alberta, Canada
2010 - 2013	Master in Computer Application Technology College of Information Engineering Northwest A&F University ¹ Yangling, Shaanxi, China
2006 - 2010	Bachelor in Computer Science and Technology College of Information Engineering Northwest A&F University Yangling, Shaanxi, China

Working Experience

January 2014 - present	Research assistant Department of Electrical and Computer Engineering University of Alberta
September 2010 – June 2012	Teaching assistant College of Information Engineering Northwest A&F University

Research

- **Computational Predictive Models**
Applications of machine learning-based predictive models in proteomics and genomics
- **Knowledge Discovery and Data Mining**
High-throughput analysis of intrinsic disorder in proteins

Peer-reviewed Journal Publications

1. **Meng, F.** and Kurgan, L., *DFLpred: High throughput prediction of disordered flexible linker regions in protein sequences*. Bioinformatics (proceedings of ISMB'16), 2016. **32**(12): p. i341-i350

¹ Northwest A&F University, A&F referring to Agriculture and Forestry, is a key national comprehensive university supported by "Project 985" and "Project 211".

2. Na, I., **Meng**, F., Kurgan, L. and Uversky, V.N., *Autophagy-related intrinsically disordered proteins in intra-nuclear compartments*. Molecular BioSystems, 2016. **12**(9): 2798-2817
3. **Meng**, F., Na, I., Kurgan, L. and Uversky, V.N., *Compartmentalization and Functionality of Nuclear Disorder: Intrinsic Disorder and Protein-Protein Interactions in Intra-Nuclear Compartments*. International Journal of Molecular Sciences, 2015. **17**(1): article 24
4. **Meng**, F., et al., *Unstructural biology of the dengue virus proteins*. FEBS Journal, 2015. **282**(17): p. 3368-3394.
5. **Meng**, F., Cai, C. and Yan, H., *A Bicluster-Based Bayesian Principal Component Analysis Method for Microarray Missing Value Estimation*. IEEE Journal of Biomedical and Health Informatics, 2014. **18**(3): p. 863-871.
6. **Meng**, F. and Cai, C., *Microarray missing value estimation by local Bayesian principal component analysis*. ICIC Express Letters, 2013. **7**(1-6): p. 535-539.
7. Cai, C. and **Meng**, F., *Gene missing value imputation by matrix completion and local least square*. ICIC Express Letters, 2012. **6**(5): p. 1229-1234.
8. **Meng**, F., Li, S. and Cai, C., *Microarray missing value estimation based on convex nuclear norm optimization*, *Computer Engineering and Design*, 2013. **34**(2): p. 660-668 [in Chinese].

Peer-reviewed Conference Publications

1. **Meng**, F., Cai, C. and Li, S., *Performance evaluation of L1-norm-based microarray missing value imputation*. 2nd IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC 2012), Hong Kong, 2012.

Presentations

1. **Meng**, F., *DFLpred: High-throughput prediction of disordered flexible linker regions in protein sequences*. 24rd Annual International Conference on Intelligent Systems for Molecular Biology (ISMB 2016), Orlando, USA, 2016.
2. **Meng**, F., *Microarray Missing Value Estimation by Local Bayesian Principal Component Analysis*. 7th International Conference on Innovative Computing, Information and Control, Shanghai, China, 2012.

Publications under revision

Peer-reviewed Book Chapters

1. **Meng**, F. and Kurgan L., *Computational prediction of protein secondary structure from sequence*. Current Protocols in Protein Science, Wiley, revision submitted, 2016.

Awards

1. Travel Fellowship awarded by International Society for Computational Biology for presenting at ISMB 2016: 2016
2. Travel Award issued by Faculty of Graduate Studies and Research of University of Alberta for presenting at ISMB 2016: 2016

3. National Graduate Scholarship awarded by the Ministry of Education of The People's Republic of China: 2013
4. First-class scholarship for outstanding graduate students at the Northwest A&F University: 2010-2012
5. Second-class scholarship for outstanding undergraduate students at the Northwest A&F University: 2007-2009