Wenting Ye

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Education

Beijing University of Posts and Telecommunications (BUPT) Beijing, China
Major in Network Engineering, School of Computer Science Sep. 2014 – Present

- Major GPA: **92.74**/100; Overall GPA **91.86**/100; Rank: **2**/145
- Member of Yepeida School (90 students selected among more than 3000 students), supervised by Prof. Chuan Shi

Research Interest

Machine Learning, Data Mining, Computer Vision,

Publication

- **A Sparse Graph-structured Lasso Mixed Model for Genetic Association with Confounding Correction.**
  Ye, W., Liu, X., Wang, H., & Xing, E. P.
  Intelligent Systems for Molecular Biology **(ISMB 2018)** (submitted)
- **Sparse Variable Selection in High Dimensional Heterogeneous Data with Tree Structured Responses.**
  Liu, X., Wang, H., **Ye, W**., & Xing, E. P.
  Bioinformatics (submitted)
- **Learning Functional Embedding of Genes Governed by Pair-wised Labels.**
  Cao, J., Wu, Z., **Ye, W.,** & Wang, H.
  IEEE International Conference on Computational Intelligence and Applications **(ICCIA 2017 oral presentation)**

Presentation

- **Everlasting Iatric Researcher (Eir): Identifying the Article and Reading for Genetic. Association Database.**
  Wang, H., Liu, X., & **Ye, W.**
  Carnegie Mellon University Language Technologies Institute Student Research Symposium
  (SRS 2017 poster presentation)

Research Experience

Toutiao AI lab, Bytedance Inc. Beijing, China
Research Intern to Dr. Changhu Wang Oct. 2017 – Present

Multi-label Video Action Recognition System

- Built an action recognition model based on mask R-CNN to detect the positions of individual and identify their behaviors
- Working on an algorithm to find the optimal path between frames and adjusted the detection results accordingly

Machine Learning Department, Carnegie Mellon University Pittsburgh, PA, U.S.
Research Intern to Prof. Eric P. Xing and Haohan Wang July 2017 – Sep. 2017

Genetic Association Database Based on Deep Reinforcement Learning

- Obtained the medical articles and genetic information using official APIs and web crawlers
- Prepared a poster and presented our works at *2017 CMU LTI Student Research Symposium*
- Working for extracting more reliable genetic information from the abstract

GenAMap

- Opted for a more efficient matrix decomposition method and consequently saved the 50% of computation time
- Supported PLINK file (a genome data format) as input and preprocessed the missing value

Language Technologies Institute, Carnegie Mellon University Pittsburgh, PA, U.S.
Research Intern to Haohan Wang Oct. 2016 – June 2017

A Sparse Graph-structured Lasso Mixed Model for Genetic Association with Confounding Correction

- Extended the ability of the linear mixed model to incorporate the dependency information between different traits based on the graph-fused lasso
- Conducted extensive experiments on both simulated and real-genome dataset to demonstrate that the proposed model outperforms other competitive models
- Wrote a manuscript reporting our work, which has been put on arXiv and submitted to *Intelligent Systems for Molecular Biology* **(ISMB 2018)**

Sparse Variable Selection on High Dimensional Heterogeneous Data with Tree Structured Responses

- Put forward a model for variable selection in high dimensional heterogeneous dataset with tree structured response
- Analyzed the performance gap among different models and experimental settings
- Completed an academic paper, which has been put on arXiv and submitted to *Bioinformatics*

Leadership Experience

BUPT Alibaba Technology Association Beijing, China
Vice President in Big Data Group Oct. 2015 – Present

- Hosted a 20-day data mining competition, namely *the 2nd BUPT big data competition*, which attracted 199 teams with 404 students to participate
- Negotiated with the sponsor *sunmnet Inc.* and *BUPT Information Technology Center* to develop a online platform to evaluate the performance of models
- Organized a series of lectures about machine learning and data mining to provide undergraduates with the platform to learn the cutting-edge topic

Selected Projects

- **GenAMap**: An open-source platform for visual machine learning of genome-phenome associations
- **SmartTrip**: A travel route planning system for course *Programming for Data Structures*, which addresses an NP-hard route optimization problem based on simulated annealing algorithm

Award & Honor

- **National Scholarship (top 1%)** Oct. 2015, Oct. 2016, Oct. 2017
  Awarded by Ministry of Education of China for three times
- **Interdisciplinary Contest In Modeling Meritorious Winner** Jan. 2016
  Awarded by the Consortium for Mathematics and Its Applications
- **First Prize in National Olympiad in Informatics in Provinces** Nov. 2013
  Awarded by the China Computer Federation

Skills

Programming Languages
Python, C/C++, Java, Pascal, JavaScript, MATLAB, MIPS Assembly Language, LaTeX
Frameworks and Tools
MXNet, Docker, Qt GUI, Django, Git
Language Proficiency
English (full professional proficiency) Mandarin (native)
Japanese (beginner) Foochow (half native)
Personal Interest
Basketball (school basketball team), piano, traveling (I have explored more than 25 cities), symphonies