Xinming Tu

Homepage: www.xinmingtu.cn

Email : tuxm@cs.washington.edu
Mobile : +1-206-593-7149

Education

- **University of Washington** — Seattle, USA
  PhD student in Computer Science & Computational Molecular Biology; — *Sep 2021 - Present*
  Advisor: Sara Mostafavi
- **Peking University** — Beijing, China
  Bachelor of Biological Science & Computer Science — *Sep 2016 - June 2021*
  Undergraduate Honors Program in Biology

Experience

- **Yale University** — New Heaven, USA
  Center for Statistical Genomics and Proteomics(Hongyu Zhao Lab) — *July 2019 - Sep 2019*
- **Microsoft Research Asia** — Beijing, China
  Machine Learning and Computational Biology Group — *Oct 2019 - Apr 2020*
- **University of Washington** — Seattle, USA
  Remote Summer Intern(Sheng Wang Lab) — *July 2020 - Sep 2020*

Publication

- **CLUE**: Xinming Tu*, Zhi-jie Cao*, Chen-rui Xia, Sara Mostafavi†, Ge Gao†.*Cross-Linked Unified Embedding for cross-modality representation learning*, ***NeurIPS*, 2022** ***(Oral Presentation)***
- **vCNN**: Shen Jin*, Jing-Yi Li*, Xin-Ming Tu, Yang Ding†, and Ge Gao†.*Effectively detect bio-motif via a new convolution model with adaptive kernel length*, ***Briefs in Bioinformatics*, 2021**
- **ePooling**: Xiao Luo*,Xin-Ming Tu*, Yang Ding, Ge Gao†, Minghua Deng† *Expectation pooling: An effective and interpretable method of pooling for predicting DNA-protein binding*, ***Bioinformatics*, 2020**
- **Kernel2Pwm**: Yang Ding, Jing-Yi Li, Meng Wang,Xin-Ming Tu, Ge Gao. *An exact transformation of convolutional kernels enables accurate identification of sequence motifs*, ***Biorxiv*, 2019**

Honors and Awards

- Paul G. Allen First-Year Graduate Student Fellowship 2021
- ShenTong Graduates (Highest Graduate honor of School of Life Science) 2021
- Outstanding Graduates of Peking University 2021
- Outstanding Graduates of Beijing, China 2021
- Merit Student in Peking University 2019
- May Fourth Scholarship in Peking University 2018
- Academic Excellence Award in Peking University 2018
- The 32^{th} Chinese Mathematical Society (CMS) 1^{st} prize 2015
- The 20^{th} National Olympiad in Informatics in Provinces(NOIP) 1^{st} prize 2014

Skills Summary

- **Languages**: Python(TensorFlow, Keras,PyTorch), C, MATLAB, R, Shell, LaTeX
- **Tools**: Linux, Git, Slurm