Xinming Tu

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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**

TEACHING

- **University of Washington** — 2023
  Teaching Assistant *CSE427: Computational Biology*

- **University of Washington** — 2023
  Teaching Assistant *CSE529: Computational Genomics*

- **Peking University** — 2019
  Tutorial Instructor *Advanced Mathematics in the School of Life Science*

ACADEMIC SERVICE

- **Conference Reviewer**: KDD(2023), RECOMB(2021-2022), NeurIPS AI for Science Workshop(2022), MLCB(2022)
- **Admission Reviewer**: UW CSE Ph.D. Admission(2021-2022)

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 32th Chinese Mathematical Society (CMS) 1st prize — 2015
- The 20th National Olympiad in Informatics in Provinces(NOIP) 1st prize — 2014

SKILLS SUMMARY

- **Languages**: Python, C, MATLAB, R, Shell, LaTeX
- **Tools**: Linux, Git, Slurm