

# Feng Jiang

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## EDUCATION

The University of Texas at Arlington  
GPA: 4.0/4.0

Ph.D. in Computer Science  
Fall 2022 - Present, Arlington, TX

## RECENT HONORS

### Best Ph.D

John S. Schuchman Outstanding Doctoral Student (*Top 0.5% of doctoral students*)

The University of Texas at Arlington  
Apr 2023

## RESEARCH INTERESTS

- Multimodal Representation Learning and Cross-modal Alignment
- Graph Neural Networks and Geometric Deep Learning
- Robust Learning under Data Imbalance
- Multimodal Foundation Models for Computational Biology and Immunoinformatics

## SELECTED PUBLICATIONS

3 selected from 15+ publications including *NeurIPS (Spotlight)*, *ICCV*, *ECCV*, *AAAI*, and top journals.

- **Feng Jiang**, M. Prakash, H. Ma, J. Deng, Y. Guo, A. Mollaysa, T. Mansi, R. Liao and Junzhou Huang, “TRIDENT: Tri-Modal Molecular Representation Learning with Taxonomic Annotations and Local Correspondence”, In Proc. of the 39th Annual Conference on Neural Information Processing Systems, NeurIPS’25, San Diego, CA, USA, December 2025.  
(*NeurIPS Spotlight, 3% acceptance rate*)
- **Feng Jiang**, Y. Guo, H. Ma, S. Na, W. An, B. Song, Y. Han, J. Gao, T. Wang and Junzhou Huang, “AlphaEpi: Enhancing B Cell Epitope Prediction with AlphaFold 3”, In Proc. of the 15th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics, ACM BCB’24, Shenzhen, China, November 2024.
- **Feng Jiang**, Y. Guo, H. Ma, S. Na, W. Zhong, Y. Han, T. Wang and Junzhou Huang, “GTE: A Graph Learning Framework for Prediction of T-Cell Receptors and Epitopes Binding Specificity”, Briefings in Bioinformatics, Volume 25, Issue 4, July 2024.  
(*JIF: 8.7, CiteScore:15.8*)
- Full publication list: [Google Scholar \(UTA Feng Jiang\)](#)    Personal website: [fengjiang02.github.io](https://fengjiang02.github.io)

## INDUSTRY EXPERIENCE

### Johnson & Johnson Research and Development, LLC

NJ, USA

R&D Data Science & Digital Health DSAI Intern

May 2025 - Aug 2025

- Developed general multimodal alignment framework using Gramian volume contrastive learning and gradient-informed adaptive modality dropout for robust cross-modal learning.
- Achieved SOTA on molecular property prediction and drug-target binding tasks; demonstrated strong performance on vision-language benchmarks.
- **Recognition:** Work selected as team highlight. **Publications:** 1 NeurIPS workshop, 1 ICML workshop, 1 ICLR’26 submission.

## RESEARCH EXPERIENCE

- **General Framework for Multimodal Alignment and Representation Learning.**
  - Proposed Gramian volume contrastive learning for geometric alignment across heterogeneous modalities, capturing high-order structures beyond distance-based approaches.
  - Developed probabilistic distribution alignment, gradient-informed modality dropout, and decoupled multimodal distillation for robust cross-modal learning.
  - Designed hierarchical local-global correspondence learning with optional structured knowledge integration.
  - Achieved state-of-the-art across drug discovery, computational biology, and vision-language tasks.  
Publications: *NeurIPS’25 Spotlight (3%)*, *ICLR’26 under review*, *ACM BCB’24*.
- **Heterogeneous Graph Learning with Dynamic Sampling and AUC Optimization.**
  - Proposed inductive graph learning framework for bipartite heterogeneous graphs with message passing and neighborhood aggregation.
  - Developed dynamic edge sampling and adapted Deep AUC Maximization for handling severe class imbalance in link prediction.
  - Achieved state-of-the-art on TCR-epitope binding benchmarks. Publication: *Briefings in Bioinformatics (JIF: 8.7)*.