

EXPERIENCE

- **JD.com** *Dec 2021 - June 2022*
Research Intern Beijing, China
 - Worked on text generation with a primary focus on creating text outputs that seamlessly blend with human-written content. This involved utilizing advanced algorithms and iterative training processes to refine the generated text, ensuring it met the desired quality standards.
 - Engaged with the Unilm and LDA models to extract topics from customer reviews. This extracted information was then utilized to craft personalized written content for each customer, enhancing the user experience and ensuring content relevancy.
- **VDIG lab, Peking University** *Nov 2021 - Aug 2022*
Researcher Beijing
 - Delved deep into object detection, a pivotal computer vision technique aimed at pinpointing instances of objects within images or videos. This research not only involved the application of established methodologies but also led to innovative outcomes, such as the introduction of the "objection" concept within object detection algorithms. This concept enhanced the interpretability of detection results.
 - Leveraged the power of self-supervised learning (SSL) combined with transformer architectures to enhance object detection in images. This approach capitalized on unlabeled data, harnessing its potential to train models more effectively. The integration of transformer structures further improved the spatial understanding of the model, leading to more accurate and granular object detections.
- **ByteDance** *Apr 2021 - July 2021*
Intern in DevEco Beijing
 - Concentrated on the foundational layer of Bytedance's host Android app, a critical component with intricate coupling relationships to a majority of Bytedance's applications. This involved understanding the app's architecture, and ensuring seamless integration and communication between the host app and other dependent apps.
 - Pioneered the creation of a mock setting environment, a simulated platform tailored to facilitate QA testing. This innovative approach streamlined the testing process, reducing potential bottlenecks and significantly accelerating the publishing timeline, leading to more efficient release cycles.
 - Championed the enhancement of the development environment, specifically catering to developers working on microapps within Bytedance. This initiative involved optimizing tools, workflows, and collaboration platforms, ensuring a productive and comfortable workspace that fostered creativity and efficiency.

SELECTED PUBLICATIONS

- Large Language Model is Secretly a Protein Sequence Optimizer** [PDF]
Accepted by LMRL ICLR 2025
Yinkai Wang, Jiaxing He, Yuanqi Du, Xiaohui Chen, Jianan Canal Li, Li-Ping Liu, Xiaolin Xu, Soha Hassoun.
- MADGEN: Mass-Spec attends to De Novo Molecular generation** [PDF]
Accepted by ICLR 2025
Yinkai Wang, Xiaohui Chen, Liping Liu, Soha Hassoun
- Graph Generative Pre-trained Transformer** [PDF]
Accepted by ICLR 2025 workshop (In submission to ICML)
Xiaohui Chen, Yinkai Wang, Jiaxing He, Yuanqi Du, Xiaolin Xu, Soha Hassoun, Liping Liu.
- On Separate Normalization in Self-supervised Transformers** [PDF]
Accepted by NeurIPS 2023
Xiaohui Chen, Yinkai Wang, Yuanqi Du, Soha Hassoun, Liping Liu
- A Survey on Deep Graph Generation: Methods and Applications** [PDF]
Accepted by LoG 2022
Yinkai Wang*, Yanqiao Zhu*, Yuanqi Du*, Jieyu Zhang, Qiang Liu, Shu Wu
- Small Molecule Generation via Disentangled Representation Learning** [PDF]
Accepted by Bioinformatics 2022
Yuanqi Du, Xiaojie Guo, Yinkai Wang, Amarda Shehu, Liang Zhao

Multi-objective Deep Data Generation with Correlated Property Control [PDF]

Accepted by NeurIPS 2022

Shiyu Wang, Xiaojie Guo, Xuanyang Lin, Bo Pan, Yuanqi Du, **Yinkai Wang**. (and 8 others)

Deep Latent-Variable Models for Controllable Molecule Generation [PDF]

Accepted by BIBM 2021

Yuanqi Du, **Yinkai Wang**, Fardina Alam, Yuanjie Lu, Xiaojie Guo, Liang Zhao, Amarda Shehu.

Dataset Geography: Mapping Language Data to Language Users [PDF]

Accepted by ACL 2022

Fahim Faisal, **Yinkai Wang**, Antonis Anastasopoulos

EDUCATION

• **Ph.D in Computer Science** *2022-Present*

Tufts University, United States

• **Master in Computer Science** *2022-2024*

Tufts University, United States

• **Bachloar in Computer Science** *2018-2021*

George Mason University, United States

• **Bachloar in Computer Science** *2017-2022*

Huaqiao University, United States

SELECTED ACADEMIC SERVICES

• **ICML reviewer** *2024-present*

• **ICLR reviewer** *2024-present*

• **NeurIPS reviewer** *2023-present*

• **NeurIPS Datasets and Benchmarks reviewer** *2022-present*

• **AAAI reviewer** *2022-present*