# Yuanqi Du

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## EDUCATIONS

**George Mason University**                                                     **Fairfax, VA**
*B.S. in Computer Science*                                                 *Aug 2017 - May 2021*
GPA: 4.0/4.0 | Major: 16/18 A+

**Huaqiao University**                                                       **Xiamen, China**
*B.S. in Computer Science*                                                 *Aug 2016 - Jun 2021*
GPA: 4.6/5.0

## REPRESENTATIVE PUBLICATIONS

\* denotes equal contribution, $^\dagger$ denotes correspondence, full list can be found in personal website including in-submissions.

**Conference Papers**

- **Yuanqi Du**, Xiaojie Guo, Hengning Cao, Yanfang Ye, Liang Zhao. Disentangled Spatiotemporal Graph Generative Model, accepted in *AAAI 2022*, also presented in *NeurIPS 2021* DGMs workshop.
- **Yuanqi Du\***, Shiyu Wang\*, Xiaojie Guo, et al. GraphGT: Machine Learning Datasets for Graph Generation and Transformation, accepted in *NeurIPS 2021* Datasets and Benchmarks track.
- Xiaojie Guo\*, **Yuanqi Du\***, Liang Zhao. Deep Generative Model for Spatial Networks, published in *KDD 2021*.
- Xiaojie Guo, **Yuanqi Du**, Liang Zhao. Property Controllable Variational Autoencoder via Invertible Mutual Dependence, published in *ICLR 2021*.
- **Yuanqi Du**, Yinkai Wang, Fardina Alam, Yuanjie Lu, Xiaojie Guo, Liang Zhao, and Amarda Shehu. Deep Latent-Variable Models for Controllable Molecule Generation, accepted in *BIBM 2021*.

**Journals**

- Xiaojie Guo\*, **Yuanqi Du\***, Sivani Tadepalli, Liang Zhao, Amarda Shehu. Generating Tertiary Protein Structures via an Interpretative Variational Autoencoder, accepted in Bioinformatics Advances.

**Workshop Papers**

- **Yuanqi Du**, Xian Liu, Shengchao Liu, Jieyu Zhang, Bolei Zhou. Interpreting Molecule Generative Models for Interactive Molecule Discovery, accepted in *ELLIS ML4Molecules* workshop 2021 (**Oral**).
- Ziming Liu, Yunyue Chen, **Yuanqi Du**, Max Tegmark. Physics-Augmented Learning: A New Paradigm Beyond Physics-Informed Learning, accepted in *NeurIPS 2021* AI for Science workshop.

**Workshop Organization**

- Payal Chandak, **Yuanqi Du**$^\dagger$, Tianfan Fu, Wenhao Gao, Kexin Huang, Shengchao Liu, Ziming Liu, Gabriel Spadon, Max Tegmark, Hanchen Wang, Adrian Weller, Max Welling, Marinka Zitnik (alphabetic order). AI for Science: Mind the Gaps workshop, with *NeurIPS 2021*.
- **Yuanqi Du**$^\dagger$, Adji Bousso Dieng, Yoon Kim, Rianne Van Den Berg, Yoshua Bengio. Deep Generative Models for Highly Structured Data, with *ICLR 2022*.
- **Yuanqi Du**, Hannes Stärk, Derek Lim, Petar Veličković, Pietro Liò, Michael Bronstein, Stefanie Jegelka, et al. Geometric Deep Learning Conference, in December 2021.

## PROFESSIONAL & RESEARCH EXPERIENCES

**DP Technology**                                                          **Beijing, China**
*Researcher*                                                             *Oct 2021 - Present*
Topic: AI for Drug Discovery, Supervisor: **Linfeng Zhang**

**Princeton University**                                    **Princeton, US**
*Visiting Student*                                          *Oct 2021 - Present*
Topic: Highly Structured Scientific Data Modeling, Advisor: **Adji Bousso Dieng**

**University of Amsterdam**                          **Amsterdam, Netherlands**
*Visiting Student* (*AMLAB & AI4Science*)                   *June 2021 - Present*
Topic: Modeling Chemical Systems with Equivariant Neural Nets, Advisor: **Max Welling**

**The Chinese University of Hong Kong**                        **Hong Kong**
*Visiting Student* (*MM Lab*)                              *June 2021 - Dec 2021*
Topic: Deep Generative Models for Molecule Generation and Manipulation, Advisor: **Bolei Zhou**

**George Mason University**                                   **Fairfax, US**
*Research Assistant*                                        *Jan 2020 - Oct 2021*
Topic: Deep Graph Learning and Molecule/Protein Structure & Dynamic Learning
Advisor: **Liang Zhao**, **Amarda Shehu**

**Microsoft Research Asia**                                  **Beijing, China**
*Research Intern* (*Machine Learning & Computational Biology Group*)   *Nov 2020 - May 2021*
Topic: Protein Structure Prediction, Advisor: **Jianwei Zhu**

**Chinese Academy of Sciences**                             **Beijing, China**
*Visiting Student* (*MIRACLE Group*)                      *Aug 2020 - Nov 2020*
Topic: Medical Image Synthesis, Advisors: **S. Kevin Zhou**, **Hu Han**

## AWARDS & ACHIEVEMENTS

- MSRA Star of Tomorrow Award                                         *2021*
- Distinguished Academic Achievement Award                           *2021*
- Outstanding Graduate Student                                       *2021*
- NeurIPS, AIJ AIIDE Travel Award                                    *2020*
- NSF REU Fellowship                                              *2019-2020*
- Distinguished Undergraduate Research Award                     *2019-2020*
- Distinguished Undergraduate Teaching Assistant Award           *2019-2020*
- GMU OSCAR Fellowship                                         *Summer 2019*
- Outstanding Undergraduate Teaching Award                      *2018-2019*
- League of Legends Challenger (world top 0.01%)                     *2016*
- StarCraft II GrandMaster (world top 0.2%)                         *2015*

## TEACHING & MENTORING EXPERIENCES

**George Mason University**                                   **Fairfax, US**
*Undergraduate Teaching Assistant*                          *Aug 2018 - Dec 2019*
Courses: Object-oriented Programming, Data Structures, Data Mining

**George Mason University**                                   **Fairfax, US**
*Peer Mentor*                                              *Feb 2019 - May 2019*
Courses: Research Advisor & Engineering Courses & Careers Services

## PROFESSIONAL SERVICES

- Reviewer for TPAMI, ICLR, AISTATS, TNNLS, NeurIPS-W, KDD, TKDD, BMVC, CIKM, ICDM, J. Adv. Transp., NeurIPS-AI4Sci, DLG-KDD, IRS-KDD, BioKDD
- Co-organize conferences KDD 2021/AAAI 2021 (Web Team), Co-organize workshops DLG-KDD/AAAI 2021/2022, DeepSpatial-KDD 2020/2021, open-source community (e.g. GraphGT)