

Zifan GONG

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EDUCATION

- **City University of Hong Kong** Hong Kong
Ph.D. in Computer Science Supervisor: Prof. Minming Li *Aug 2022 - Present*
- **City University of Hong Kong** Hong Kong
B.Sc. in Computer Science (First Honor Ranked Top10%) *Sep 2018 - Jun 2022*
Full Tuition Scholarship 120000 HKD per year (2018-2022)

EXPERIENCE

- **Beijing Normal University** Zhuhai, China
Research Assistant, advised by Dr. Chenhao Wang *Jul 2022 - Aug 2022*
 - **Algorithmic Mechanism Design:**
 - Design mechanisms for facility location games with ordinal preferences
 - Extend randomized mechanisms
 - Prove lower bound and upper bound of approximate algorithms
- **City University of Hong Kong Shenzhen Research Institute** Shenzhen, China
Research Assistant, advised by Dr. Shuaicheng Li *Jul 2020 - Mar 2021*
 - **Website Design and Develop:**
 - Developed a full-stack website using Rails, JavaScript, to visualize gene recombination recombination.oviz.org
 - Developed a full-stack website for bacteria analyses and visualization bacteria.deepomics.org
 - Developed several visualization analysis gallery.oviz.org
- **City University of Hong Kong** Hong Kong
Research Assistant, advised by Prof. Minming Li *Jan 2020 - May 2020*
 - **Algorithmic Mechanism Design:**
 - Design mechanisms for facility location with fractional preferences and minimum distance
 - Prove lower bound and upper bound of approximate algorithms
 - One paper accepted by the 28th International Computing and Combinatorics Conference 2021

PUBLICATIONS

- **COCOON 2021:** Longteng Duan, **Zifan Gong**, Minming Li, Chenhao Wang, and Xiaoying Wu
Mechanism Design for Facility Location with Fractional Preferences and Minimum Distance

PROJECTS

- **Deepfake faces detection (Machine Learning):** Developed a convolutional neural network program based on ResNet50 to detect deepfake and face2face faces images, achieved a accuracy of 98% on the testset (Dec 2021)
- **Image classification (Computer Vision):** Developed an image classification program using convolutional neural network-Xception and SIFT, achieved a average precision of %78 on the training 5000 images. (Mar 2021)

AWARDS AND SCHOLARSHIP

- CityU Postgraduate Studentship (2022 - Present)
- CityU Full Tuition Scholarship (2018 - 2022)
- Silver Prize in China International College Students' "Internet +" Innovation and Entrepreneurship Competition 2021

SKILLS SUMMARY

- **Languages:** Java, C++, Python, Javascript
- **Tools:** Ruby, Flask, Vue, NumPy, Matplotlib, OpenCV
- **English:** GRE 326, IELTS 6.5