

# Zifan GONG

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## EDUCATION

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- **City University of Hong Kong** Hong Kong  
*Ph.D. in Computer Science Supervisor: Prof. Minming Li* Aug 2022 - June 2026 (expected)
- **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

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- **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](http://recombination.oviz.org)
    - Developed a full-stack website for bacteria analyses and visualization [bacteria.deepomics.org](http://bacteria.deepomics.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

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- **COCOON 2021:** Mechanism Design for Facility Location with Fractional Preferences and Minimum Distance  
Longteng Duan, **Zifan Gong**, Minming Li, Chenhao Wang, and Xiaoying Wu
- **Theoretical Computer Science:** Facility location games with ordinal preferences  
Hau Chan, **Zifan Gong**, Minming Li, Chenhao Wang, Yingchao Zhao
- **AAMAS 2024 Extended Abstract:** Facility location games with task allocation  
**Zifan Gong**, Minming Li, Houyu Zhou

## PROJECTS

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- **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

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- 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

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