Xu Xiang

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Last Update: Mar. 2022

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Education

- **Beihang University** — Beijing, China
  Master of Computer Science, advisor: Prof. Qinping Zhao — 2020.09 – 2023.01(expected)
- **China University of Geosciences** — Beijing, China
  Bachelor of Computer Science and Technology, GPA:3.52/4.0(TOP 10%) — 2016.09 – 2020.06

Awards

- **ACM-ICPC Asia China Final** *Bronze Medal* 2019
- **ACM-ICPC Asia Hong Kong Regional Contest** *Bronze Medal* 2018
- **ACM-ICPC Asia Nanjing Regional Contest** *Bronze Medal* 2018
- **CCPC Qinghuangdao Regional Contest** *Bronze Medal* 2018
- **National Olympiad in Informatics in Provinces(NOIP)** *First Prize*×2 2013,2014
- **The 10th China University of Geosciences Programming Competition** *First Place* 2016

Experience

- **Research Intern; Advisor: Dr. Yanpei Cao** — 2020.8 – 2021.9
  Kwai, Animation Group
  - **Task**: We want to present a 3D animation system that allows novice users to create, edit, preview, and render animations, all through text editing.
  - **My Work**:
    1. After investigating a large number of literatures, we divided the system into two modules to implement: NSM and LDS, which are animation generation module and environment generation module respectively.
    2. I lead 5 undergraduates to migrate LDS from C++ to NSM Unity frame in about 2 months. I wrote 70% of the code and all documentation for this module, and scheduled the development progress.
    3. I innovatively proposed an improved model matching algorithm and an adaptive model placement algorithm. I deployed and improved the simulated annealing algorithm for motion optimization to the best effect.
  - **Result**: Our research **paper** ***Write-An-Animation*** is accepted by **PG 2021** (CCF-B).
- **Reseach Intern; Advisor: Prof. Jie Hao** — 2018.12 – 2019.9
  Chinese Academy of Sciences(CASIA)
  - **Task**: The task is binocular recognition and ranging on the embedded environment(UAV).
  - **My Work**: I am responsible for optimizing the binocular matching process. I implemented a sparse matching algorithm for this scenario, replacing the previous BM algorithm.
  - **Result**: The improved algorithm increases the computational efficiency by a factor of 20.

Skills

- **Develop Skills**
  - I am a well-trained programmer, written over 10w lines of code in my undergraduate days.
  - program language: C++, Python, C#, Java
  - other: Linux, Latex, Git, Docker
- **English** : GRE 318; CET6