

# Chongyang Xu

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## RESEARCH INTEREST

I am primarily interested in computer systems research, specifically in graph processing and machine learning systems. My key interests include efficiency and scalability.

## EDUCATION

<b>Max Planck Institute for Software Systems / Saarland University</b> <i>Ph.D. student, Advisor: Dr. Laurent Bindschaedler</i>	Saarbruecken, Germany 2022.06 - present
<b>Beihang University</b> <i>Master, School of Computer Science and Engineering, Advisor: Prof. Zhongzhi Luan</i>	Beijing, China 2017.09 - 2020.06
<b>Shandong University</b> <i>Bachelor, School of Software Engineering, Rank: 3%</i>	Shandong, China 2013.09 - 2017.06

## RESEARCH EXPERIENCE

<b>Max Planck Institute for Software Systems, Ph.D. student</b> <i>Data Systems Group, Advisor: Dr. Laurent Bindschaedler</i> <ul style="list-style-type: none"><li>Efficient large scale graph neural network training</li></ul>	2023.03 – Present Saarbruecken, Germany
<b>Max-Planck-Institute for Informatics, Ph.D. student</b> <i>Network protocol characterization</i>	2022.06 – 2023.02 Saarbruecken, Germany
<b>Intel China Research Center Company, System Software Engineer</b> <i>VTG-ICG, Characterizing and improving Intel IPU6 software performance for Linux.</i>	2020.07 – 2022.05 Beijing, China
<b>Beihang University, Research Assistant</b> <i>Sino-German Joint Software Institute, Advisor: Prof. Zhongzhi Luan</i> <ul style="list-style-type: none"><li>Optimizing challenging irregular workload (Hoeffding tree) on GPUs.</li><li>Performance measurement of convolution neural network (CNN) inference.</li></ul>	2017.09 – 2020.06 Beijing, China

## POSTERS

- Chongyang Xu**, “Towards scalable data serving for GNN training,” in ACM Student Research Competition at SOSP 2023, Koblenz, Germany, 2023-10
- Chongyang Xu**, Laurent Bindschaedler, “Towards scalable data serving for GNN training,” in Poster session at CMMRS 2023, Saarbruecken, Germany, 2023-08

## TEACHING ASSISTANT

- Operating Systems, MPI & Saarland University Summer Semester 2024
- Systems for Large (Language) Models , MPI & Saarland University Winter Semester 2023/2024

## SKILLS

**Programming Language:** C, C++, Cuda; some familiarity: Python, Java, Rust  
**Systems and tools:** Linux, docker, gdb, Pytorch, DGL, Tensorflow  
**Languages and others:** Chinese(native), English (fluent), German(beginner); academic presentation

## PROJECTS BEFORE 2020

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- large scale text processing for stock trend prediction** | *Java, Python* March 2017 – June 2017
- crawling and analysing financial information web page, undergraduation design
- RealFly** | *C++,Java,C#* June 2015 – November 2015
- virtual experience of helicopter piloting via drones, VR and 3D sensing, team project
- OfficeCoder** | *C#* January 2015 – May 2015
- Microsoft Word add-ons generating Apps per functional description in natural language, team project

## AWARDS & HORNORS

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### Honors & Awards

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|--|--------------|-----|-----|
| • VTG Divisional Recognition Awards Q4 2021, Intel       | 2022.01      |     |     |
| • Dean's Scholarship                                     | 2017.06      | Top | 1%  |
| • Outstanding Graduates                                  | 2017.04      | Top | 10% |
| • Advanced individual in Innovation and Entrepreneurship | 2016.05      | Top | 12% |
| • Shandong University First Prize Scholarship            | 2015.12      | Top | 5%  |
| • Shandong University Merit Student                      | 2015.12      | Top | 5%  |
| • National Scholarship                                   | 2015.11      | Top | 2%  |
| • Shandong University Second Prize Scholarship x2        | 2014/2016.12 | Top | 15% |
| • National Encouragement Scholarship X2                  | 2014/2016.12 | Top | 30% |

### Competetion & Award

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|--|---------|-----------|--|
| • Google Student Innovation Project (total 27 projects nationwide)           | 2016.12 |           |  |
| • National College Students Innovation and Entrepreneurship Training Project | 2016.05 | 1st Prize |  |
| • Intel Cup National Collegiate Software Innovation Contest                  | 2015.11 | 2nd Prize |  |
| • Microsoft Imagine Cup 2015 Global Student Technology Competition           | 2015.05 | 2nd Prize |  |
| • Qilu Contest of Software Design  | 2014.11 | 2nd Prize |  |