

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

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

RESEARCH EXPERIENCE

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

- 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

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 | |