Cheng Huang

Email: cheng@cs.au.dk Mobile: +45 55255746

EDUCATION

Aarhus University — Aarhus, Denmark
Ph.D. in Computer Science — *Jul 2023 - Jul 2026 expected*

Aarhus University — Aarhus, Denmark
Master of Science in Computer Science; ***Weighted GPA****: 10.9/12* — *Sep 2021 - Jun 2023*

Shandong University of Technology — Shandong, China
Bachelor of Engineering in Software Engineering; ***Weighted GPA****: 90.2/100,* ***Rank****: 1/196* — *Sep 2017 - Jun 2021*

RESEARCH INTERESTS

I am focused on designing efficient parallel algorithms for graph mining and high-performance computing (HPC) tasks.

PUBLICATIONS

1. **Cheng Huang**, Alexander Mathiasen, Josef Dean, Johannes Langguth, Davide Mottin, Ira Assent. Linear Assignment on Tile-Centric Accelerators: Redesigning Hungarian Algorithm on IPUs. *SIAM Symposium on Algorithm Engineering and Experiments (ALENEX25).*

2. **Cheng Huang**, Alexander Mathiasen, Josef Dean, Davide Mottin, Ira Assent. HunIPU: Efficient Hungarian Algorithm on IPUs. *In Proceedings of the International Conference on Data Engineering Workshops (ICDEW24).*

PAPERS SUBMITTED/UNDER REVISION

1. **Cheng Huang**, Davide Mottin, Ira Assent. Swift FirmCore Decomposition on Million-scale Multilayer Graphs.

2. **Cheng Huang**, Atefeh Moradan, Mohammad Sorkhpar, Davide Mottin, Ira Assent. Graph-aware Unsupervised Entity Summarisation.

TEACHING

- **Bachelor Thesis co-supervisor**, co-supervised with Prof. Dr. Ira Assent and Prof. Dr. Davide Mottin, 2024 Spring.

- **Super Teaching Assistant**, Database, *Lecturer: Prof. Dr. Ira Assent*, Aarhus University, 2024 Spring.

- **Teaching Assistant**, Deep Learning for Visual Recognition, *Lecturer: Dr. Henrik Pedersen*, Aarhus University, 2023 Fall.

EMPLOYMENT

Aarhus University — Jul 2023 – Present
Ph.D. Student — *Aarhus, Denmark*

ByteDance — Mar 2021 – Jun 2021
Software Engineer, Intern — *Beijing, China*

DiDi — Oct 2020 – Feb 2021
Software Engineer, Intern — *Beijing, China*

Inspur Group — Jul 2020 – Sep 2020
Software Engineer, Intern — *Shandong, China*

HONORS

1. Danish State Scholarship, Aarhus University, 2021.

2. Shandong University of Technology Outstanding graduates, 2021.

Referees

- **Prof. Dr. Davide Mottin**
  Aarhus University
  Email: davide@cs.au.dk

- **Prof. Dr. Ira Assent**
  Aarhus University
  Email: ira@cs.au.dk