STEFFEN MAASS

Google

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Education

Georgia Institute of **Technology**

Ph.D. in Computer Science

08/2019

Atlanta, GA

GPA: 4.0 / 4.0

Advisor: Dr. Taesoo Kim

Thesis: Systems Abstractions for Big Data Processing on a Single Machine

Georgia Institute of **Technology**

M.Sc. in Computer Science

12/2014

Atlanta, GA

GPA: 4.0 / 4.0

Specialization: Networking

University of Stuttgart

M.Sc. in Computer Science

08/2015

Stuttgart, Germany

GPA: 1.1 / 1.0

(excellent with distinction)

Specializations: Database Systems and Distributed Systems Thesis: Distributed Graph Processing and Partitioning for

Spatiotemporal Queries in the Context of Camera Networks

University of Stuttgart

B.Sc. in Computer Science

09/2012

Stuttgart, Germany

GPA: 1.5 / 1.0

Thesis: Efficient Strategies for Task Distribution for Public Sensing

(excellent)

Publications

Solros: A Data-Centric Operating System Architecture for Heterogeneous Computing

Changwoo Min, Woon-Hak Kang, Mohan Kumar, Sanidhya Kashyap, Steffen Maass, Heeseung Jo, and Taesoo Kim. EuroSys'18, Porto, Portugal, April, 2018.

Acceptance rate: 16.4%

LATR: Lazy Translation Coherence

Mohan Kumar*, Steffen Maass*, Sanidhya Kashyap, Ján Veselý, Zi Yan, Taesoo Kim, Abhishek Bhattacharjee, and Tushar Krishna.

ASPLOS'18, Williamsburg, VA, USA, March, 2018.

* marks joint first authors.

Acceptance rate: 17.5%

Code: https://github.com/sslab-gatech/mosaic/

Mosaic: Processing a Trillion-Edge Graph on a Single Machine.

Steffen Maass, Changwoo Min, Sanidhya Kashyap, Woon-Hak Kang, Mohan Kumar, and Taesoo Kim. EuroSys'17, Belgrade, Serbia, April, 2017.

Best Student Paper Award

Acceptance rate: 20.5%

Coverage: The Morning Paper, TheNextPlatform, Hacker News, HN II, Georgia Tech News I, GT News II

Code: https://github.com/sslab-gatech/mosaic/

Understanding Manycore Scalability of File Systems

Changwoo Min, Sanidhya Kashyap, Steffen Maass, Woon-Hak Kang, and Taesoo Kim.

ATC'16, Denver, CO, June, 2016.

Acceptance rate: 19.0%

Code: https://github.com/sslab-gatech/fxmark/

Workshops

1. KALEIDOSCOPE: Graph Analytics on Evolving Graphs.

Steffen Maass and Taesoo Kim.

In the 12th EuroSys Doctoral Workshop Workshop (EuroDW), Porto, Portugal, April, 2018.

Posters

1. Mosaic: Processing a Trillion-Edge Graph on a Single Machine.

Steffen Maass, Changwoo Min, Sanidhya Kashyap, Woon-Hak Kang, Mohan Kumar, and Taesoo Kim. In *the Workshop on Optimization & Big Data (OBD'18)*, KAUST, Saudi Arabia, Feb, 2018.

Best Contribution Award

2. DISTCOZ: Tell Me What to Optimize in My Distributed Application

Steffen Maass, Mohan Kumar, and Taesoo Kim.

NSDI'17 - Poster, Boston, MA, April, 2017.

3. Network Function Fault Isolation in a Single Address Space

Mohan Kumar, Steffen Maass, and Taesoo Kim.

NSDI'17 - Poster, Boston, MA, April, 2017.

Awards

OBD'18	Best Contribution Award	02/2018
Eurosys'17	Best Student Paper Award	04/2017

Travel Grants

1. **14th USENIX Symposium on Networked Systems Design and Implementation** 03/2017 Boston, MA

Invited Talks and Presentations

EuroDW'18	KALEIDOSCOPE: Graph Analytics on Evolving Graphs	Porto, 04/2018
ASPLOS'18 - Lightning Talk	LATR: Lazy Translation Coherence	Williamsburg, 03/2018
OBD'18 - Spotlight Talk	Mosaic: Processing a Trillion-Edge Graph on a Single Machine	KAUST, 02/2018
Intel ISTC	Mosaic: Processing a Trillion-Edge Graph on a Single Machine	Atlanta, 06/2017
EuroSys'17	Mosaic: Processing a Trillion-Edge Graph on a Single Machine	Belgrade, 04/2017

Work Experience

Software Engineer	Google, Sunnyvale, CA Working in the cloud networking team on Google's load balancing platform	since 08/2019
Ph.D. Software	Google, Sunnyvale, CA	05/2018 - 08/2018
Engineering Intern	Intern in the cloud networking team, working on Google's load balancing pl	atform.

Ph.D. Software Google, Mountain View, CA 05/2016 – 08/2016

Engineering Intern Intern in the Platforms team, working on performance diagnosis of Google's next-gen SDN plat-

form.

Ph.D. Software Google, New York, NY 05/2015 – 08/2015

Engineering Intern Working on the control plane of the load-balancing platform of Google's front-end serving in-

frastructure.

Graduate Research Georgia Tech, Atlanta, GA 08/2013 – 05/2019

Assistant Research in the *Embedded Pervasive Lab* under Dr. Kishore Ramachandran and *Systems Software*

& Security Lab under Dr. Taesoo Kim.

Software Developer maaß IT consulting, Kirchheim unter Teck, Germany 2008 – 2013

Development of customized web applications.

Teaching Experience

Graduate Teaching Georgia Tech, Atlanta, GA 2014 – 2018

Assistant Graduate Teaching Assistant for Computability & Algorithms, Computer Networks, and Advanced

Operating Systems.

Teaching Assistant
University of Stuttgart, Germany
2011 – 2013

Teaching Assistant for Distributed Systems & a hands-on class on processor architecture and

design.

Technical Strengths

Languages C++, C, Java, and Python

Professional Service

Externel Reviewer | NSDI'19