Aakash Sharma

Curriculum Vitæ — July, 2022

ORCID: 0000-0003-3965-3271 — aakash.sharma@uit.no — hysharma.com

EDUCATION

expected **Ph.D. in Computer Science**, UiT – The Arctic University of Norway, Norway
2022 Thesis: *Lohpi: A System for Compliant Research Data Sharing and Processing*
Supervisors: Prof. Dag Johansen, Assoc. Prof. Håvard D. Johansen

2017 **M.Sc. in Distributed Software Systems**, Technical University of Darmstadt, Germany
Thesis: *Differential Map Updates for Highly Automated Driving and Enhanced Driver Assistance Services*
Supervisors: Prof. Dr.-Ing. Ralf Steinmetz, Dr. Florian Jomrich

2009 **B.Eng. in Information Technology**, Sant Gadge Baba Amravati University, India

PROFESSIONAL EXPERIENCE

2017–2021 **Ph.D. Candidate**, UiT – The Arctic University of Norway, Norway

2016–2017 **Student Employee**, Polytech Domilens GmbH, Germany

2015–2016 **Student Research Assistant**, Ubiquitous Knowledge Processing (UKP) Lab, Technical University of Darmstadt, Germany

2013–2014 **Web Developer**, Digital India Corporation (*formerly* Media Lab Asia), India

2010–2013 **Systems Software Engineer**, IBM India Software Labs, India

2009–2010 **Software Engineer**, Persistent Systems, India

2009–2009 **Trainee**, Persistent Systems, India

PUBLICATIONS

2022 Pietro Randine, **Aakash Sharma**, Gunnar Hartvigsen, Håvard D. Johansen and Eirik Årsand. Information and Communication Technology-based Interventions for Chronic Diseases Consultation: Scoping Review, *International Journal of Medical Informatics*. doi:10.1016/j.ijmedinf.2022.104784

2021 **Aakash Sharma**, Thomas B. Nilsen, Sivert Johansen, Dag Johansen and Håvard D. Johansen. Designing a Service for Compliant Sharing of Sensitive Research Data, *Risks and Security of Internet and Systems. CRiSIS 2021. Lecture Notes in Computer Science, vol 13204. Springer, Cham.*. doi:10.1007/978-3-031-02067-4_10

2021   **Aakash Sharma**, Thomas B. Nilsen, Lars Brenna, Dag Johansen and Håvard D. Johansen. Accountable Human Subject Research Data Processing using Lohpi, *Proceedings of the International Conference on ICT enhanced Social Sciences and Humanities (ICTeSSH).* doi:10.21428/7a45813f.80ebd922

2021   **Aakash Sharma**, Thomas B. Nilsen, Katja P. Czerwinska, Daria Onitiu, Lars Brenna, Dag Johansen and Håvard D. Johansen. Up-to-the-minute Privacy Policies via gossips in Participatory Epidemiological Studies, *Frontiers in Big Data.* doi:10.3389/fdata.2021.624424.

2020   **Aakash Sharma**, Katja P. Czerwinska, Lars Brenna, Dag Johansen, Håvard D. Johansen. Privacy Perceptions and Concerns in Image-Based Dietary Assessment Systems: Questionnaire-Based Study, *JMIR Hum Factors* doi:10.2196/19085.

2019   Florian Jomrich, **Aakash Sharma**, Tobias Rückelt, Doreen Böhnstedt, Ralf Steinmetz. Intelligent Offloading Distribution of High Definition Street Maps for Highly Automated Vehicles, *Smart Cities, Green Technologies, and Intelligent Transport Systems, Springer, Cham* doi:10.1007/978-3-030-02907-4_11.

2017   Florian Jomrich, **Aakash Sharma**, Tobias Rückelt, Daniel Burgstahler, Doreen Böhnstedt. Dynamic Map Update Protocol for Highly Automated Driving Vehicles, *Proceedings of the International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS)*, doi:10.5220/0006279800680078.

INVITED TALKS

2021   Compliant Sharing of Sensitive Data with Lohpi, *BBChain Project Meeting, University of Stavanger, Norway*

2021   Compliant Sharing of Sensitive Data with Dataverse and Lohpi, *Dataverse Community Meeting, Session - Sensitive Data* https://youtu.be/q3irpQ4rOyU?t=3521

2021   Up-to-the-minute Data Policy Updates for Participatory Studies, *Befolkningsundersøkelser i Nord (BiN) Project Technical Meeting, Norway*

TEACHING AND SUPERVISION

2021-2022   Master Thesis Co-supervision : Sivert Johansen

INF-3200   Teaching Assistant for Distributed Systems Fundamentals (Fall 2019, 2020)

INF-3203   Teaching Assistant for Advanced Distributed Systems (Spring 2020)

2020   Completed the course *Teaching and Learning in Higher Education* https://result.uit.no/phd-course/

OPEN-SOURCE SOFTWARE

WebAnno 3.0 – https://webanno.github.io/webanno/
A Flexible, Web-based and Visually Supported System for Distributed Annotations

osm2pgrouting – osm2pgrouting on GitHub
Import tool for OpenStreetMap data to pgRouting database

ACADEMIC SERVICE

2018–2022   **Social Media Editor** ACM SIGOPS

2020–2021   **Artifact Evaluation Committee** SOSP 2020, OSDI 2021

2020   **Shadow PC** European Conference on Computer Systems (EuroSys) 2020

2018–2019   **Vice Board-Chair** Doctoral Students at UiT – The Arctic University of Norway

2018   **Poster Chair** 1st ACM SIGOPS Summer School on Advanced Topics in Systems

2016   **Student Volunteer** ISC High Performance Conference

WORKSHOPS AND SCHOOLS

2020 2nd Human Behavior and Machine Intelligence (HUMAINT) Winter School

2018 1st ACM SIGOPS Summer School on Advanced Topics in Systems (SATIS)

2018 12th International Computer Vision Summer School (ICVSS)

2018 12th European Conference on Computer Systems (EuroSys) Doctoral Workshop

2017 2nd International Workshop on Personal Data Systems (PDS)

LANGUAGES

English (*Fluent*), Norwegian Bokmål (*Intermediate*), German (*Basic*), Hindi (*Native*)