Aakash Sharma

Curriculum Vitæ — October, 2023

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EDUCATION

expected 2024   **Ph.D. in Computer Science**, UiT – The Arctic University of Norway, Norway.
Thesis: *Lohpi: A System for Compliant Research Data Sharing and Processing.*
Supervisors: Prof. Dag Johansen, Prof. Håvard Dagenborg.

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

2023–   **Researcher**, UiT – The Arctic University of Norway, Norawy

2017–21   **Ph.D. Candidate**, UiT – The Arctic University of Norway, Norway.

2016–17   **Student Employee**, Polytech Domilens GmbH, Germany.

2015–16   **Student Research Assistant**, Ubiquitous Knowledge Processing (UKP) Lab, Technical University of Darmstadt, Germany.

2013–14   **Web Developer**, Digital India Corporation (*formerly* Media Lab Asia), India.

2010–13   **Systems Software Engineer**, IBM India Software Labs, India.

2009–10   **Software Engineer**, Persistent Systems Limited, India.

2009–9   **Trainee**, Persistent Systems Limited, India.

HONORS & AWARDS

2023   Winner of ICE Creative North Hackathon https://www.linkedin.com/posts/ice-kirkenes_iceif2024-changemakers-arctic-activity-7121113712349855744-Zhnf

2018   Winner of Reading Group Competition at ICVSS 2018 https://iplab.dmi.unict.it/icvss2018/

PUBLICATIONS

2023   **Aakash Sharma**, Katja P. Czerwinska, Dag Johansen, and Håvard Dagenborg. Capturing Nutrition Data for Sports: Challenges and Ethical Issues, *MultiMedia Modeling. MMM 2023. Lecture Notes in Computer Science, vol 13833. Springer, Cham.*. doi:10.1007/978-3-031-27077-2_47

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   Master Thesis Co-supervision : Sivert Johansen

2020   Completed the course *Teaching and Learning in Higher Education.*

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

2019-20   Teaching Assistant for Distributed Systems Fundamentals (INF-3200).

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–   **Social Media Editor** ACM SIGOPS.

2020–23   **Artifact Evaluation Committee** SOSP '20, OSDI '21, WOOT '23.

2022   **PC Member** 29th International Conference on Multimedia Modeling.

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

2018–19   **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*).