

Aakash Sharma

Curriculum Vitæ — January, 2025

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EDUCATION

- 2025 **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, Norway
- 2017–21 **Ph.D. Candidate**, UiT – The Arctic University of Norway, Norway.
- 2016–17 **Student Employee (BI Developer)**, 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.

GRANTS & AWARDS

- 2025 Mobility Grant for [EUGLOH Workshop on Entrepreneurship](#)
- 2024 Mobility Grant for [EUGLOH Co-Creating Innovation Week](#)
- 2023 Winning Team of [ICE Creative North Hackathon](#)
- 2018 Winning Team of [Reading Group Competition at ICVSS 2018](#)

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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/q3irpQ4r0yU?t=3521>

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

TEACHING AND SUPERVISION

2024-25 [Foundational Course in University Pedagogy \(UNIPED-100\)](#).
2021 Master Thesis Co-supervision : [Sivert Johansen](#).
2020 Took [University Pedagogy for PhD Candidates](#) course.
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.
2020–25 **Artifact Evaluation Committee** SOSP '20, OSDI '21, WOOT '23, FAST '25.
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 (HUMAIN) 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*).