

# Aakash Sharma

Curriculum Vitæ — March, 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 Skills on and Response to Resuscitation and other Threatening Scenarios](#)
- 2025      Mobility Grant for [EUGLOH International Week - Szeged](#)
- 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](#)
- 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. CRIStIS 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/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** 1<sup>st</sup> ACM SIGOPS Summer School on Advanced Topics in Systems.
- 2016 **Student Volunteer** ISC High Performance Conference.

## WORKSHOPS AND SCHOOLS

- 2020 2<sup>nd</sup> Human Behavior and Machine Intelligence (HUMAIN) Winter School.
- 2018 1<sup>st</sup> ACM SIGOPS Summer School on Advanced Topics in Systems (SATIS).
- 2018 12<sup>th</sup> International Computer Vision Summer School (ICVSS).
- 2018 12<sup>th</sup> European Conference on Computer Systems (EuroSys) Doctoral Workshop.
- 2017 2<sup>nd</sup> International Workshop on Personal Data Systems (PDS).

## LANGUAGES

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