

# Aakash Sharma

Curriculum Vitæ — April, 2022

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## EDUCATION

- expected*  
2022     **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, 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:[xxx](#)
- 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. CReSIS 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*

## 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

## TEACHING

- 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/>

## ACADEMIC SERVICE

2020–2022 **Artifact Evaluation Committee** SOSP 2020, OSDI 2021  
2018–2022 **Social Media Editor** ACM SIGOPS  
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** 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 (HUMAINTE) 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*), German (*Basic*), Hindi (*Native*)