

HENRIK KORSGAARD

Researcher and **software developer** with a **user-centered** mindset. I love building software!



Professional profile

I am a researcher, software developer and interaction designer at heart. I have been involved in multiple international and national projects spanning Open Data, Smart Cities, the Internet of Things, data visualization, embedded solutions, software for collaboration, and much more. In the last 10 years, I have developed technical applications and services within research, across multiple languages and platforms. I have experience with data engineering and data visualization. I pick up new (and old) technologies every year and my main mode of learning is through code and implementation.

I have strong analytical skills, coupled with a curious mindset and a commitment to contribute to the projects I involved in. I do my best work at the intersection between business development, UX research, and software engineering – as part of a team effort. I can contribute to all stages of the development process, from early ideas and research, identifying the right solution and the architecture that matches, planning features and sprints, into development and release. I strive to communicate design features and technical requirements in formats directed toward designers and developers alike. I am pragmatic in nature and open about technologies and methodologies – but if you let me pick, I pick agile user-centered design and test-driven development.

As a communicator, I have experience in scientific communication, technical writing and documentation, public speaking, facilitation, and education on a high level. In the last five years, I have supervised more than 100 student teams in developing interactive products and software systems, including bachelor's and master's theses in interaction design and data-driven projects. In this role, I coach students in user research, software architecture and design, agile approaches, and user-centered methodologies.

I am driven by a desire to consistently challenge and develop new skills. I look forward to joining a strong team with a shared vision, where I can contribute to building better software and services.

Selected Projects

GraphQL for open data

2022 – 2023

Developer and researcher on exploring how GraphQL based solutions can provide the DX/UX experience and performance that modern application designs and front-end technologies require. The technical experiments focus on GraphQL microservices for well-known Danish open data platforms.

Most proud of

- 🎓 PhD in Computer Science
- 🏆 Best Paper Award CSCW
- 🏅 Cabinet maker's Bronze medal
- ❤️ My amazing family

Personal Information

- 🏠 10. March 1979
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- 📄 LinkedIn
- 🐙 Github

Expertise overview

Software engineering: ●●●●●
DDD/TDD, software architecture, agile processes, data engineering and visualisation (SQL, D3, Vega) and code (Go, Nodejs, Java, Python,HTML5/Javascript).

Design: ●●●●●
Business development, UX research, design methodologies, workshop facilitation and sprints, user journeys/user stories, prototyping, evaluation.

Project management: ●●●●●
Business development, strategy and sprint planning, team lead and coaching, stakeholder management and organisational implementation.

Communication: ●●●●●
Design and technical documentation, dissemination and public speaking (education, talks, training), scientific communication.

Languages

- Danish (native) ●●●●●
- English (fluent) ●●●●●

Human-Data Interaction

2021 – 2023

Lead researcher and supervisor coordinating research activities and projects exploring co-design, application design, and technical infrastructures and techniques for developing data-driven applications. Examples include applications for open energy data for households, utility meter data for households, tools supporting investigative data journalism, etc.

Data-driven Foodbank

2017 – 2018

Project coordinator in collaboration between our research group and a Danish Foodbank NGO. I coordinated and conducted contextual research, facilitated workshops, and developed design concepts on how to integrate data from the NGO into their public presence, impact analysis to partner organizations, and visualizations for their warehouse logistics.

Drive Now - iOS App

2012 – 2013

Designer and lead developer on iOS App providing commute time recommendations based on real-time traffic data from an IoT network. Workshop facilitation and design meetings with project partners and IoT service vendors. I developed the iOS application and data analytics and completed the App Store release.

City Bug Report

2012 – 2013

Design lead on the conceptual and visual design of a media facade and installation on the city hall in Aarhus. The installation was part of the Media Architecture Biennale 2012 hosted in Aarhus. The installation showed an animated data visualization of public communication between citizens and the municipality.

Smart Aarhus

2011 – 2012

Member of the Smart Aarhus secretariat and the Open Data Workgroup. I helped develop the Aarhus Smart City strategy together with the city, region, and Aarhus University. This included facilitating workshops, preparing steering group meetings, public speaking, and communication.

Selected publications

What's the Situation with Situated Visualization? [\[Link\]](#)

Data visualizations are ubiquitous in our everyday lives. Yet, the interplay between the data visualization and the context wherein they are situated has received very little attention. The publication draws attention to the importance of integrating the physical environment, time, people, and activities into designing situated visualizations.

Sketching and Ideation Activities for Situated Visualization Design [\[Link\]](#)

When data is everywhere, it makes sense to bring the ideation workshop to where the data is generated or where a visualization would be useful. In this paper, we explore different workshop formats and approaches to sketching data visualizations together with domain experts and end-users within the context of their everyday activities.

Territorial Functioning in Collaborative Writing [\[Link\]](#)

We know a lot about how people collaborate and the user experience of writing together, but we have very little data to support these experiences. In this study, we combine qualitative interviews with co-authors, with quantitative analysis of hundreds of thousands of Google Document revisions. We use custom-developed data visualizations to show the correlation between the user experience and the document data.

Employment

Assistant Professor, Department of Computer Science, Aarhus University (AU)
Current

PostDoc, Department of Computer Science, AU
2017 – 2020

PhD, Department of Computer Science, AU
2013 – 2017

Project assistant AU Smart Cities
2011 – 2013

External lecturer, Information Studies, AU
2012

Teaching assistant, Information Studies, AU
2010 – 2012

Cabinet maker, Aarhus
2004 – 2007

Additional positions

Steering Committee Officer EUSSET
2020 – 2023

Conference chair (LBW): NordiCHI
2021 – 2022

Organising Committee: Participatory Design Conference 2015 – 2016

Danish Smart City network
2012 – 2013

Aarhus Open Data work group
2011 – 2013

Smart Aarhus secretariat
2011 – 2013

Education

Phd, Department of Computer Science, Aarhus University (AU)
2017

MSc, Information Technology, Information Studies (AU)
2013

Cabinet maker, Brdr. Andersens Møbelsnedkeri
2004