

EDUCATION

- **Brunel University London** Uxbridge, United Kingdom
Doctor of Philosophy (PhD), Computer Science Mar. 2017 –
- **Westerdals Oslo School of Arts, Communication and Technology** Oslo, Norway
Master of Applied Computer Science - Software Integration Aug. 2014 – July. 2016
- **The Norwegian School of Information Technology** Oslo, Norway
Bachelor of Information Technology - E-Business Aug. 2011 – July. 2014

EXPERIENCE

- **Kristiania University College** Oslo, Norway
PhD Research Fellow Oct 2016 - Present
 - **Summary:** Working towards a PhD in Computer Science through research carried out at Kristiania UC, with affiliation to the Mobile Technology Lab research group at the Department of Technology. As part of my fellowship, I supervise Master and Bachelor students, and develop and teach two undergraduate courses: Introduction to Programming, and Cross-Platform Mobile Development.
- **DharmicData** Oslo, Norway
Cross-Stack Developer Apr 2016 - Oct 2016
 - **Tasks:** My work at DharmicData involved the development of all customer-facing interfaces on Web and mobile. In addition to the technical responsibility of front-end development, I also worked on – and partially designed – the user experience of DharmicData's products.
- **Foodbird (*startup*)** Oslo, Norway
Lead Software Developer Nov 2015 - 2016
 - **Tasks:** Developing a system to streamline ordering takeaway food from restaurants. My tasks involved systems architecture and development, mapping of specifications and requirements, and communication between project owners and development team (two developers).
 - **Technologies:** Android, iOS, React Native, MongoDB, Parse, Meteor.js, GraphQL, REST.
- **Norwegian Broadcasting Corporation** Oslo, Norway
Intern Jun 2015 - Aug 2015
 - **Tasks:** Worked with semantic technologies and data conversion at NRK, the Norwegian Broadcasting Corporation, to increase/enable efficient report generation and data storage. Testing and evaluation of triple stores, and worked on the conversion of old data formats into RDF.
- **Museai** Oslo, Norway
Software Developer - Mobile and Back-end Architecture Jun 2014 - Aug 2014
 - **Tasks:** Worked as a mobile app developer for Museai, a Norwegian startup focusing on music technology. Responsibilities included the implementation of all design, user experience, and functionality, and communication with back-end. Granted funding by Innovation Norway.
- **Path AS** Lysaker, Norway
Mobile Developer Apr 2013 - Nov 2013
 - **Tasks:** Developed Line of Business applications for customers of Path AS. Primary focus was the development of cloud-connected location-based mobile solutions for private security guard companies. All products were developed for Windows Phone and Windows 8 using native technologies, and cross-platform solutions using the Web platform.

Peer-Reviewed Journals

- Andreas Biørn-Hansen, Christoph Rieger, Tor-Morten Grønli, Tim Majchrzak, and Gheorghita Ghinea. An empirical investigation of performance overhead in cross-platform mobile development frameworks. *Springer Empirical Software Engineering*, -(-), (Accepted)
- Andreas Biørn-Hansen, Tor-Morten Grønli, and Gheorghita Ghinea. A survey and taxonomy of core concepts and research challenges in Cross-Platform mobile development. *ACM Computing Surveys*, 51(5):108:1–108:34, January 2019
- Andreas Biørn-Hansen, Tor-Morten Grønli, and Gheorghita Ghinea. Animations in Cross-Platform mobile applications: An evaluation of tools, metrics and performance. *Sensors*, 19(9), May 2019
- Andreas Biørn-Hansen, Tor-Morten Grønli, Gheorghita Ghinea, and Sahel Alounch. An empirical study of Cross-Platform mobile development in industry. *Wireless Communications and Mobile Computing*, 2019, January 2019

Peer-Reviewed Conferences

- Tor-Morten Grønli, Andreas Biørn-Hansen, and Tim A Majchrzak. Software development for mobile computing, the internet of things and wearable devices: Inspecting the past to understand the future. In *Proceedings of the 52nd Hawaii International Conference on System Sciences*. ScholarSpace, January 2019
- Tim A Majchrzak, Andreas Biørn-Hansen, and Tor-Morten Grønli. Progressive web apps: the definite approach to Cross-Platform development? In *Proceedings of the 51st Hawaii International Conference on System Sciences*, pages 5735–5745. ScholarSpace, January 2018
- Andreas Biørn-Hansen, Tor-Morten Grønli, and Siri Fagernes. Analysis of feature-completeness in android cross-platform frameworks. In *Proceedings of the 31st Norwegian Informatics Conference*. Bibsys, November 2018
- Andreas Biørn-Hansen and Gheorghita Ghinea. Bridging the gap: Investigating Device-Feature exposure in Cross-Platform development. In *Proceedings of the 51st Hawaii International Conference on System Sciences*, pages 5717–5724. ScholarSpace, 2018
- Andreas Biørn-Hansen, Tor-Morten Grønli, and Gheorghita Ghinea. Baseline requirements for comparative research on Cross-Platform mobile development: A literature survey. In *Proceedings of the 30th Norwegian Informatics Conference*. Bibsys, November 2017
- Andreas Biørn-Hansen, Tim A Majchrzak, and Tor-Morten Grønli. Progressive web apps: The possible web-native unifier for mobile development. In *Proceedings of the 13th International Conference on Web Information Systems and Technologies*, pages 344–351. SCITEPRESS, April 2017
- Tim Majchrzak, Andreas Biørn-Hansen, and Tor-Morten Grønli. Comprehensive analysis of innovative Cross-Platform app development frameworks. In *Proceedings of the 50th Hawaii International Conference on System Sciences*, pages 6162–6171. scholarspace.manoa.hawaii.edu, 2017

Peer-Reviewed Book Chapters

- Andreas Biørn-Hansen, Tim A Majchrzak, and Tor-Morten Grønli. Progressive web apps for the unified development of mobile applications. In *Web Information Systems and Technologies*, volume 322 of *Lecture Notes in Business Information Processing*. Springer, July 2018. Extended version of WEBIST 2017 paper