

# Abir Bouraffa

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## EDUCATION

<b>Technische Universität Hamburg (TUHH)</b> <i>Master of Science in Computer Science (Grade: 1,6)</i>	Hamburg, DE Oct. 2014 – Apr. 2019
<b>Technische Universität Hamburg (TUHH)</b> <i>Bachelor of Science in Computational Informatics (Grade: 1,7)</i>	Hamburg, DE Oct. 2011 – Sep. 2014

## WORKING EXPERIENCE

<b>Research Assistant</b> <i>University of Hamburg, Dept. of Applied Software Technologies</i> <ul style="list-style-type: none"><li>Research on a DFG funded project on Empirical Analysis of Program Comprehension in Software Engineering</li><li>Supervision of student App development projects (M-Lab) in cooperation with industry partners</li><li>Supervision of Bachelor theses, including Human-Computer Interaction (HCI) majors</li></ul>	Jun. 2020 – Today Hamburg, DE
<b>Ph.D. candidate</b> <i>University of Hamburg, Dept. of Applied Software Technologies</i> <ul style="list-style-type: none"><li><b>Thesis Title:</b> On the Interplay of Code Review and Knowledge Sharing in Software Development</li></ul>	2021 – Today Hamburg, DE
<b>Working Student</b> <i>HITeC. e.V.</i> <ul style="list-style-type: none"><li>Development of a recommender system for the assessment of software requirements quality within EU funded research project OpenReq (<a href="https://openreq.eu/">https://openreq.eu/</a>)</li></ul>	Jan. 2019 – May 2019 Hamburg, DE
<b>Student Research Assistant</b> <i>Technische Universität Hamburg (TUHH)</i> <ul style="list-style-type: none"><li>Development of an online tool to raise awareness of risk assessment methods in sea ports within EU funded project HAZARD (<a href="https://blogit.utu.fi/hazard/">https://blogit.utu.fi/hazard/</a>)</li></ul>	Sep. 2018 – Dec. 2018 Hamburg, DE
<b>Internship</b> <i>Otto Group, Dept. Business Intelligence</i> <ul style="list-style-type: none"><li>Development of a cloud-based solution for the migration of a Hive Data warehouse</li></ul>	Apr. 2018 – Jul. 2018 Hamburg, DE
<b>Internship</b> <i>Deloitte, Dept. Analytics &amp; Information Management</i> <ul style="list-style-type: none"><li>Design of software architecture components within a Data Lake migration project</li></ul>	Nov. 2017 – Feb. 2018 Frankfurt, DE
<b>Working Student</b> <i>Berenberg Bank, Dept. Database Support</i> <ul style="list-style-type: none"><li>2nd Level Support for securities settlement applications</li><li>Development of interfaces Oracle DB-based applications in PL/SQL</li></ul>	Dec. 2014 – Jul. 2017 Hamburg, DE

## SKILLS

**Languages:** German (C1), French (fluent, 2nd language), English (IELTS Academic 8/9), Arabic (mother tongue)  
**Programming Languages:** PL/SQL, SQL, Python, Java, Flutter (Dart)  
**Development Tools:** Git, Docker, VS Code, Jupyter, IntelliJ  
**Libraries:** Numpy, spaCy, NLTK, Scikit-Learn, Gensim, Pandas, Swifter, Matplotlib

## SCHOLARSHIPS

<b>Schotstek Scholarhip</b> Career coaching and discussion with industry leaders in Hamburg	since Aug. 2018
<b>Merit scholarship of the city of Hamburg</b> Financial support for undergraduate studies	Apr. 2013 – Apr. 2014

## VOLUNTEER WORK

<b>Pint Of Science</b> International Science Communication Network	since Jan. 2020
<b>UNDP Online Volunteer</b> (SDG AI Lab)	since Jul. 2021

## PUBLICATIONS

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*Abir Bouraffa and Walid Maalej*, Two Decades of Empirical Research on Developers' Information Needs: A Preliminary Analysis, Proceedings of the IEEE/ACM 42nd International Conference on Software Engineering Workshops, 2020

*Y. D. Pham, A. Bouraffa and W. Maalej*, ShapeRE: Towards a Multi-Dimensional Representation for Requirements of Sustainable Software, IEEE 28th International Requirements Engineering Conference (RE), 2020

*Y. D. Pham, A. Bouraffa, Marleen Hillen and W. Maalej*, The Role of Linguistic Relativity on the Identification of Sustainability Requirements: An Empirical Study, IEEE 29th International Requirements Engineering Conference (RE), 2021

*Lloyd Montgomery, Davide Fucci, Abir Bouraffa, Lisa Scholz and Walid Maalej*, Empirical research on requirements quality: a systematic mapping study, Requirements Engineering Journal, 2021 (Pre-Print)