

Nur Al-huda Hamdan

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EDUCATION

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| 2013–today | PhD candidate
RWTH Aachen University, Dept. Computer Science, Media Computing and HCI Group , Germany
THESIS: Interactive textile interfaces for wearables and smart homes. ADVISOR: Jan Borchers |
| 2010–2013 | MSc student
RWTH Aachen University, Dept. Computer Science, Software Systems Eng. Program , Germany
FOCUS: Designing interactive systems. THESIS: A window manager for public interactive tabletops.
SUPERVISOR: Simon Voelker. GPA: 3.8/4.0 <i>Distinction</i> |
| 2005–2009 | BSc student
The University of Jordan, Dept. Computer Engineering , Jordan
FOCUS: Bioinformatics. THESIS: Cancer classification based on microarray gene expression data using DCT and ANN. SUPERVISORS: Majid Al-Taee and Ahmad Sarhan. GPA: 3.56/4.0 <i>Valedictorian</i> |

RESEARCH

Selected Publications

- N. Hamdan, J. Blum, F. Heller, R. Kosuru, and J. Borchers. Grab at an Angle: Menu Selection for Fabric Interfaces. Submitted to *ISWC '16*, ACM, 2016.
- N. Hamdan, F. Heller, C. Wacharamanotham, J. Thar, and J. Borchers. Grabrics: A Foldable Two-Dimensional Textile Input Controller. *CHI '16 EA*, ACM, 2016.
- N. Hamdan, M. Lahaye, C. Corsten, and J Borchers. Presentation Strategies for Micro-Navigation in the Physical World. *CHI '16 EA*, ACM, 2016.
- S. Voelker, C. Corsten, N. Hamdan, K.r vergrd, and J. Borchers. An Interaction Model for Grasp-Aware Tangibles on Interactive Surfaces. *ITS '14*, ACM, 2014.
- N. Hamdan, S. Voelker, and J. Borchers. Conceptual Framework for Surface Manager on Interactive Tabletops. *CHI '13 EA*, ACM, 2013.

R&D Projects

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| 2016–today | Personal Photonics—HaptiVision . Lead Researcher. Developing wearable tactile interfaces from depth camera data. |
| 2015–today | Intuitex . Lead Researcher. Developing "intuitive" ready for deployment textile interfaces on clothes and furniture. |
| 2012 | Counter Entropy . Back-end Developer. An interdisciplinary project to build a sustainable home with automation support. |

WORK EXPERIENCE

2013–today	RWTH Aachen University, Dept. Computer Science, Media Computing and HCI Group , Germany Teaching Assistant COURSES: Designing Interactive Systems, Current Topics in HCI and Research Methods, iPhone Application Programming. STUDENT SUPERVISION: seminars, labs, and master’s and bachelor’s theses.
2011–2012	RWTH Aachen University, Dept. Computer Science, Media Computing and HCI Group , Germany Student Assistant Developed frameworks, gesture recognizers, and apps for iOS devices and tabletops (Objective-C/CocoaTouch).
2009–2010	SEDCO , Jordan. Software Engineer Developed the back-end of banking and queuing systems (VB.NET).
2009	Freelancing , Jordan Software Engineer Designed databases for warehouses (SQL).
2009	GloTech , Jordan. Software Engineer (intern for 3 months) Developed web forms for human resources departments (ASP.NET).

SKILLS

Design Focus	Interaction design, user-centered design, mobile interface design
Research Skills	Quantitative research methods, experiment design, usability studies (lab-based), low-high fidelity prototyping (hardware and software), motion tracking (e.g., Vicon and IMUs), statistical hypothesis testing and data analysis (e.g., using machine learning tools)
Programming	PROFICIENT: Java, Swift, Objective-C/CocoaTouch, Xcode IDE, R, Processing, micro-controller programming, \LaTeX . PRIOR EXPERIENCE: C++, VB.NET, ASP.NET, Matlab
Languages	Arabic(mother tongue), English (professional proficiency), German (elementary proficiency)

ACTIVITIES

2015–today	Volunteer Junior Editor and blogger in ACM XRDS Students Magazine.
2013–today	Reviewer: CHI2014, UIST2014, CHI2015, CHI2016, MuC2016.
2012	Co-started a startup called Tickets2Night which provides superior filtering interfaces based on user activity.

AWARDS

2016	BMBF Research Funding (for three-years), Germany
2013	RWTH Academic Achievement Medal (Springorum-Denkmal), Germany
2012	Googles Anita Borg Memorial Scholarship, Europe
2010	The State Academic Achievement Scholarship (NRW-Stipendium), Germany
2009	Princess Sumaya Al-Hassan Graduation Project Award, Jordan

REFERENCES

Prof. Dr. Jan Borchers
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