Curriculum Vitae

# Timo Homburg

Computer Scientist into Computational Linguistics, Machine Learning, GIS and Semantic Web Applications.

## Education

Apr 2015 - Jul 2019

**PhD, Computer Science** (expected); [University Koblenz-Landau](https://west.uni-koblenz.de) (Koblenz, Germany)

*Phd Thesis in Semantic Quality Assement and Quality Prediction of OpenStreetMap areas.*

Jul 2013 - Aug 2013

**Summer School: Doing Business in Africa**; [Polytechnic Of Namibia](http://www.nust.na) (Windhoek, Namibia) (Grade: B)

*Summer School in the Business Department of the Polytechnic of Namibia on South African history and economics.*

Mar 2012 - Mar 2015

**M.Sc., Computer Science**; [Goethe University](http://www.uni-frankfurt.de) (Frankfurt am Main, Germany) (Grade: 1,0 (A))

*Minor: Chinese Studies Thesis title: Verfahren zur Wortsegmentierung nichtalphabetischer Schriften*

Jul 2010 - Aug 2010

**Summer School: China Cultural Exchange**; [Shanghai International Studies University](http://en.shisu.edu.cn) (Shanghai, China)

*Summer School in the language department for cultural exchange and language study.*

Oct 2008 - Feb 2012

**B.Sc., Computer Science**; [RheinMain University of Applied Sciences](http://www.hs-rm.de) (Wiesbaden, Germany) (Grade: 1,4 (A))

*Thesis title: Entwicklung einer Androidanwendung zur Zustandsanzeige von Messstationen des Deutschen Wetterdienstes*

## Teaching Experience

Oct 2017 - Jul 2018

**Lecturer** [RheinMain University of Applied Sciences](http://www.hs-rm.de), Wiesbaden/Germany Industry: Research

*Teaching experience as lecturer in the courses “Introduction to Computer Science”, “Algorithms and Data Structures”*

## Working Experience

Oct 2017 - May 2019

**Systemadministrator** [Mainz University Of Applied Sciences](http://www.i3mainz.de), Mainz/Germany Industry: Research

*System Administrator of the research group* [*i3Mainz*](http://www.i3mainz.de)

Apr 2015 - May 2019

**Researcher** [Mainz University Of Applied Sciences](http://www.i3mainz.de), Mainz/Germany Industry: Research Taking part in the [SemGIS project](http://i3mainz.hs-mainz.de/de/projekte/semanticgis)

*Researching in GIS data quality and the geospatial Semantic Web*

May 2013 - Mar 2015

**Assistant Scientist** [Research group Wirtschaftsinformatik/Goethe University](http://www.wi.informatik.uni-frankfurt.de),Frankfurt am Main/Germany Industry: Research *Taking part in the* [*EVER project*](http://www.uni-trier.de/index.php?id=40545&L=2) Detailed achievements: \* Implementing algorithms needed by the project \* Getting more detailed practical knowledge of Information Retrieval methods

Nov 2011 - Feb 2012

**Student Employee** [MeteoSolutions GmbH](https://www.meteosolutions.de), Darmstadt, Germany Industry: Software Engineering

*Development of an Android application to display status data for measuring monitors for weather stations as a part of my Bachelor Thesis*

Mar 2011 - Aug 2011

**Trainee** [Sirona Dental Systems Foshan Co. Ltd.](http://www.fona.com.cn), 佛山 Foshan, China Industry: Medical Devices

*Research of a solution to connect a Syteline Version 8 ERP System to an Oracle Agile PLM System, Taking part in the development of a Parts Tracking Database for the Research and Development department*

Feb 2011 - Feb 2011

**Student employee** [RheinMain University Of Applied Sciences, Laboratory of Software Engineering](http://eswete.cs.hs-rm.de), Wiesbaden/Germany

*Taking part in a feasibility study for the* [*German weather forecast organisation (DWD)*](http://www.dwd.de)

Dec 2010 - Feb 2011

**Student Employee** [DOPSY Laboratory for Distributed Systems](https://wwwvs.cs.hs-rm.de/mitarbeiter/details/t_hombur.html), Wiesbaden, Germany Industry: Research

*Development of a content management system for the homepage of the laboratory*

Oct 2010 - Dec 2010

**Student work** [Alfred Wegener Institute](http://www.awi.de/de/institut/standorte/helgoland), Wiesbaden, Helgoland/Germany

*Taking part in the development of a web application for fish noise categorisation in the context of my Database/Web Engineering specialisation*

Jan 2010 - Aug 2010

**Student Employee** [DOPSY Laboratory for Distributed Systems](https://wwwvs.cs.hs-rm.de/mitarbeiter/details/t_hombur.html), Wiesbaden, Germany Industry: Research

*Development of a content management system for the homepage of the laboratory*

Sep 2007 - May 2008

**Alternative Service** [Main-Kinzig Hospital](http://www.mkkliniken.de), Gelnhausen, Germany Industry: Management of Information Systems

*IT Support and Administration tasks in a hospital*

## Human Languages

German

C2, Native Speaker

English

C1, 13 years

Mandarin Chinese

B2 ([汉语水平考试 HSK Level 4 Standard Chinese language proficiency Test (2013)](http://english.hanban.org/node_8002.htm)), Score: 186/300

French

B1, 5 years

Japanese

A1, 0.5years

## Technical Experience

Programming Languages

Proficient Knowledge:

**Java**

**Python**

**JavaScript**

**Ruby**

**JSP/JSF**

Intermediate Knowledge:

**C**

**C++**

**C#**

**Scala**

**PHP**

**Scalate**

Basic Knowledge:

**MIPS Assembly/X86 Assembly**

**Haskell**

**Matlab**

Markup Languages

**HTML5,GML,KML,XML**

**Markdown**

**LaTeX, XeTeX**

Query Languages:

**SQL** (MySQL, PostgreSQL)

**SPARQL**

## Awards

Apr 2017

[WebIST Best Student Paper Award](https://situx.github.io/files/certificate-BestStudentPaper.pdf)

Jul 2016

[Valedictorian Award (Jahrgangsbester)](https://situx.github.io/files/val_master.pdf) Computer Science Master Of Science

Mar 2015

[DARIAH-DE Digital Humanities Award 2015](https://de.dariah.eu/dariah-dh-award-2015)

Apr 2013

Nomination to take part in the [Summer University of Namibia 2013](http://www.vaea.at/summer-university-namibia)

Jun 2012

[Valedictorian Award (Jahrgangsbester)](https://situx.github.io/files/val_bachelor.pdf) Computer Science Bachelor Of Science

Jan 2011

[PROMOS-Scholarship](http://www.daad.de/hochschulen/ausschreibungen/13502.de.html) for studying abroad

## Peer Reviewing for Conferences and Journals

Dec 2017

[DH2018](https://dh2018.adho.org/en/)

## Volunteer Work

Sep 2017

[Election official](https://www.bundeswahlleiter.de/bundestagswahlen/2017/informationen-wahlhelfer.html) at the Federal Election 2017 in Germany

Sep 2017

[Science Market Mainz](https://www.wissenschaftsallianz-mainz.de)

Jun 2014

[Night of Science Frankfurt](https://www.nightofscience.de)

## Soft Skills

Nov 2016

Public Speaking in Academics ([Atlantic Language Dublin](https://www.atlanticlanguage.com/schools/dublin)) Erasmus Plus Staff Training Mobility

Mar 2013

Innovationmanagement ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Feb 2013

Careermanagement and Selfcoaching ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Dez 2012

Analysing compliance strategies of companies ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Sep 2012

Learning Strategies ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Aug 2012

Intercultural Competence ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Aug 2012

Communication Skills ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Aug 2012

Selfpresentation ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

May 2012

Time Management Skills ([Soft Skills Uni Frankfurt](http://www.starkerstart.uni-frankfurt.de/45043283/schluesselkompetenzen?legacy_request=1))

Nov 2007

How to convince others ([VHS Gelnhausen](http://www.vhs-main-kinzig.de))

Oct 2007

Rhetorical Skills Basic Course ([VHS Gelnhausen](http://www.vhs-main-kinzig.de))

## Side Projects

2017

[AdventOfCode](https://github.com/situx/adventofcode) - Solutions to some of the [Advent Of Code](https://adventofcode.com) Challenges (Java)

2017

[SemanticDictionary](https://github.com/situx/aoc) - Creation of a Semantic Dictionary for Ancient Languages (RDF)

2016

[CuneiPainter](https://situx.github.io/CuneiPainter) - An app to paint cuneiform characters on your Android phone (Java)

2015 - 2018

[tuxbot](https://situx.github.io/MafiaManager) - Plugins for the [Sopel chatbot](https://github.com/sopel-irc) (Python)

2014 - 2017

[webime](https://github.com/situx/webime) - Port of an input method engine in JavaScript to support Akkadian Cuneiform (JavaScript, HTML)

2013

[Mafia Manager](https://situx.github.io/MafiaManager) - An xml dataformat to formalize the creation of characters for the popular game Mafia (XML)

Student projects:

2014

[POSTagger](https://github.com/situx/POSTagger) - POSTagger for Ancient (cuneiform) languages (Java)

2010

[KochplattformWeb](https://github.com/situx/KochplattformWeb) - Inverse recipe search engine as a web application (Scala, Scalate)

2010

[J2Latex](https://github.com/situx/J2Latex) - Java to LaTeX Compiler (JavaCC)

2009

[Timtris](https://situx.github.io/Timtris) - Tetris Game with Dr. Mario mod (Java)

2009

[Quiz](https://situx.github.io/Quiz) - Quiz Game with three different question types (C++)

2008

[ConnectFour](https://situx.github.io/ConnectFour) - ConnectFour game for the console (C)

## Miscellaneous

Driving Licenses

Aug 2006

[European Motorbike Driving License](https://ec.europa.eu/transport/road_safety/topics/driving-licence/eu-driving_licence_en), Class: A

Apr 2006

[European Trailer Driving License](https://ec.europa.eu/transport/road_safety/topics/driving-licence/eu-driving_licence_en), Class: BE

Nov 2005

[European Car Driving License](https://ec.europa.eu/transport/road_safety/topics/driving-licence/eu-driving_licence_en), Class: B

Interests

Travelling

Swimming, Biking

## Contact Information

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Social Media

: [Publications](%7B%7B%20site.url%20%7D%7D/about/publications/) | [ORCID profile](https://orcid.org/%7B%7B%20site.owner.orcid%20%7D%7D) | [Google Scholar profile](https://scholar.google.com/citations?user=%7B%7B%20site.owner.gscholar%20%7D%7D&hl=en)