Urkunde
Certificate

RWTHAACHEN
UNIVERSITY

Die Fakultät für Mathematik, Informatik und
Naturwissenschaften
The Faculty of Mathematics, Computer Science, and
Natural Sciences

verleiht
awards

Herrn / Mr.
Xiaoqi Ma

geboren am
13. August 1994
born on
August 13, 1994
in Hangzhou

aufgrund der abgeschlossenen Masterprüfung im
Studiengang
on the basis of the completed Master Examination

MEDIA INFORMATICS

MEDIA INFORMATICS

den akademischen Grad
the academic degree

MASTER OF SCIENCE
RWTH AACHEN UNIVERSITY
(M. Sc. RWTH)

Aachen,
den 4. Dezember 2019
December 4, 2019

Univ.-Prof. Dr. rer. nat. Ulrich Simon

Univ.-Prof. Dr. rer. nat. Jan Oliver
Borchers

Der Dekan der Fakultät
Dean of the Faculty

Der Vorsitzende des
Prüfungsausschusses
Chair of the Examination Board

Zeugnis Certificate | RWTHAACHEN UNIVERSITY

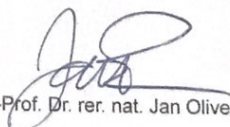|	
Mr.	Xiaoqi Ma
born on	August 13, 1994
in	Hangzhou
has passed the	**Master Examination**
in accordance with the provisions of the syllabus for	**Media Informatics***
and has obtained the overall mark	**good (1.8)**

Master Thesis		Credits	Mark
Topic of Master Thesis	Explain variable influence in black box models through pattern mining	30.00	good (2.5)
Examiner	Univ.-Prof. Dr. techn. Markus Bernhard Strohmaier		

Aachen, December 04, 2019

Chair of the Examination Board

Univ.-Prof. Dr. rer. nat. Jan Oliver Borchers

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*Annotation: Common syllabus with the University of Bonn

Zeugnis | Certificate RWTHAACHEN UNIVERSITY

Xiaoqi Ma, born on August 13, 1994 in Hangzhou
has achieved the following individual results:

	Credits	Mark
Computer and Communication Technology	**26.00**	**good (1.6)**
Data Communication and Internet Technology	6.00	good (1.7)
Intelligent Learning and Analysis Systems: Data Mining and Knowledge Discovery	6.00	satisfactory (3.0)
Introduction to Data Science	6.00	very good (1.0)
Recognized Examination in Computer and Communication Technology *Recognized due to an examination taken during studies at the Technische Hochschule Lübeck*	4.00	very good (1.0)
Network Security	4.00	very good (1.0)
Recognized Examination in Computer and Communication Technology *Recognized due to an examination taken during studies at the Technische Hochschule Lübeck*	4.00	very good (1.0)
Computer Networks	4.00	very good (1.0)
Multimedia Technology	**20.00**	**good (2.1)**
Computer Graphics	6.00	satisfactory (3.3)
Web Mining	6.00	good (1.7)
Statistical Classification and Machine Learning	8.00	good (1.7)
Multimedia Use and Impact	**16.00**	**very good (1.4)**
Designing Interactive Systems I	6.00	good (2.3)
CSCW and Groupware: Concepts and Systems for Computer Supported Cooperative Work	4.00	very good (1.0)
Social Data Science	6.00	very good (1.0)
Lab Work	**20.00**	**very good (1.1)**
Lab-Work	10.00	very good (1.3)
Lab-Work Fraunhofer Institute	10.00	very good (1.0)
Communication Skills	**12.00**	**good (2.1)**
German Language Course	4.00	good (2.0)
Technical Writing	4.00	satisfactory (2.7)
Seminar	4.00	good (1.7)
Gender detection on the web	4.00	good (1.7)

This certificate has also been issued in a German version.

Xiaoqi Ma, born on August 13, 1994 in Hangzhou
has achieved the following individual results:
A credit point represents an estimated workload of approximately 30 hours.

Diploma Supplement | RWTH AACHEN UNIVERSITY

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value-judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. HOLDER OF THE QUALIFICATION

1.1 Family Name / 1.2 First Name
Ma, Xiaoqi

1.3 Date, Place of Birth
August 13, 1994, Hangzhou

1.4 Student ID Number or Code
383420

2. QUALIFICATION

2.1 Name of Qualification (full, abbreviated, in original language)
The Master degree corresponds to qualification level 7 of the German Qualifications Framework / European Qualifications Framework.

Title Conferred (full, abbreviated, in original language)
Master of Science RWTH Aachen University (M. Sc. RWTH)

2.2 Main Field(s) of Study
Media Informatics

2.3 Institution Awarding the Qualification (in original language)
Rheinisch-Westfälische Technische Hochschule Aachen (RWTH Aachen)
Status (Type / Control)
University of the Federal State of North Rhine-Westphalia Germany / State Institution Federal State of North Rhine-Westphalia

2.4 Institution Administering Studies (in original language)
See 2.3
Status (Type / Control)
See 2.3

2.5 Language(s) of Instruction / Examination
English

3. LEVEL OF THE QUALIFICATION

3.1 Level
Second Degree Study Program

3.2 Official Length of Program
2 years (4 semesters, 120 ECTS Credits)

3.3 Access Requirements
Admission to the course requires the applicant to hold a recognized first university degree. Details on adequate qualifications can be found in the published examination rules.

4. CONTENTS AND RESULTS GAINED

4.1 Mode of Study
Full time

4.2 Program Requirements / Qualification Profile of the Graduate

The international Master Programme in Media Informatics at the Bonn-Aachen International Center for Information Technology (B-IT) is offered by RWTH Aachen University and the University of Bonn in co-operation with the Fraunhofer Institutes at Sankt Augustin near Bonn. This interdisciplinary programme will educate the participant to successfully master the novel technical and economic challenges at the crossroads of computer science, software engineering, next-generation communication systems, and media. The programme is distinguished by its international orientation, its focus on IT competence, and its high level of integration of research and teaching.

The master programme in Media Informatics consists of five main blocks:
- computer and communication technology, with compulsory subjects
- multimedia technology, with compulsory subjects
- multimedia use and impact, with compulsory subjects
- communication skills
- lab courses and master thesis.

The first three blocks are focussed on lectures and practice-oriented tutorials/exercises in compulsory and elective area of the mentioned fields; compulsory subjects include Data Communications and Internet Technology, Object-Oriented Software Construction, Computer Graphics and Designing Interactive Media. Elective areas include: digital interactive media, internet infrastructures, management of information, communication and security, knowledge management, visualisation, and virtual engineering on the basis of augmented reality.

Special courses on modelling of spatial and mobile aspects, and on usage, annotation, and retrieval of spatial data enable for interested students a special focus in Geographical Information Systems. The programme of study also includes methodological aspects of designing media informatics systems from the perspectives of software engineering, usability, media design, and business requirements.

Communication skills address Technical Writing, Foreign Language Skills (for international students: German Language skills), seminars and special courses on subjects such as project management.

The programme is characterised by a significant proportion of research lab courses embedded in both basic and applied research of the participating Fraunhofer Institutes for Applied Information Technology (FIT), and for Intelligent Analysis and Information Systems (IAIS), and with other research

and industry partners in the region. The final six months of the programme are dedicated to the master thesis which can be done in co-operation with industry.

The course contents is structured according to the ECTS (European Credit Transfer System).

4.3 Program Details

See "Transcript of Records" for list of courses and grades and "Prüfungszeugnis" (Final Examination Certificate) for subjects taken in written and oral examinations and topic of thesis, including evaluations.

4.4 Grading Scheme

General Mark Scheme (see Section 8.6)

4.5 Overall Classification

good (1.8)

Based on the accumulation of grades received during the study program and the final thesis; cf. Prüfungszeugnis (Final Examination Certificate).

5. FUNCTION OF THE QUALIFICATION

5.1 Access to Further Study

Qualifies to apply for admission to doctoral studies.

5.2 Professional Status

The academic degree of Master of Science is a professional qualification which entitles the graduate to hold the academic title of Master of Science.

6. ADDITIONAL INFORMATION

6.1 Additional Information

not specified

6.2 Further Information Sources

On the institution and study programs
http://www.rwth-aachen.de

7.   CERTIFICATION

This Diploma Supplement refers to the following original documents:

Urkunde über die Verleihung des Master of Science RWTH Aachen University (M. Sc. RWTH)

vom December 04, 2019

Prüfungszeugnis vom December 04, 2019

Transcript of Records vom March 18, 2020

Certification Date: March 18, 2020

Univ.-Prof. Dr. rer. nat. Jan Oliver Borchers
Chair of the Examination Board

Seal

8.   NATIONAL HIGHER EDUCATION SYSTEM

The information on the national higher education system on the following pages provide a context for the qualification and the type of higher education that awarded it.