LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

FAKULTÄT FÜR MATHEMATIK, INFORMATIK UND STATISTIK
LEISTUNGSNACHWEIS

Li, Zonggen
Geboren am 01.10.1998 in Qingdao
Matrikelnummer: 12355870

München, den 9. März 2024

Studiengang: Bachelor Informatik **Nebenfach: Computerlinguistik**

Leistungsnachweis gemäß Prüfungsordnung der Ludwig-Maximilians-Universität München für den Studiengang Bachelor Informatik vom 29. September 2010

Modul	Prüfungsleistung	Semester	Note	Status	ECTS	ECTS
Hauptfach Informatik						
P 1	Einführung in die Programmierung (Vorlesung & Übung, 4+2 SWS)	WS 21/22	**1.7**	BE	9	**9**
P 2	Programmierung und Modellierung (Vorlesung & Übung, 3+2 SWS)	SS 21	**1.0**	BE	6	**6**
P 3	Algorithmen und Datenstrukturen (Vorlesung & Übung, 3+2 SWS)	SS 21	**1.0**	BE	6	**6**
P 4	Rechnerarchitektur (Vorlesung & Übung, 3+2 SWS)	SS 21	**1.0**	BE	6	**6**
P 5	Betriebssysteme (Vorlesung & Übung, 3+2 SWS)	WS 21/22	**1.0**	BE	6	**6**
P 6.1-2	Rechnernetze und verteilte Systeme (Vorlesung & Übung, 3+2 SWS)	SS 22	3.7	BE	6	**6**
P 7	Softwaretechnik (Vorlesung & Übung, 3+2 SWS)	WS 23/24	2.7	BE	6	**6**
P 8	Formale Sprachen und Komplexität (Vorlesung & Übung, 3+2 SWS)	SS 22	**1.7**	BE	6	**6**
P 9	Formale Spezifikation und Verifikation (Vorlesung & Übung, 3+2 SWS)	WS 22/23	**1.0**	BE	6	**6**
P 10	Datenbanksysteme (Vorlesung & Übung, 3+2 SWS)	WS 21/22	**1.0**	BE	6	**6**
P 12	Logik und Diskrete Strukturen (Vorlesung & Übung, 3+2 SWS)	SS 21	**1.0**	BE	6	**6**
P 6.3	**Seminar zu ausgewählten Themen der Informatik**					
	Proseminar Evolutionary Algorithms (Seminar, 2 SWS)	WS 22/23	**2.3**	BE	3	**3**
Wahlbereich: Praktika						
WP 2	Systempraktikum (Vorlesung & Praktikum, 2+9 SWS)	WS 22/23	**1.0**	BE	12	**12**
Bereich: Mathematik						
WP 10	Analysis für Informatiker (Vorlesung & Übung, 4+2 SWS)	WS 21/22	**1.7**	BE	9	**9**
WP 11	Lineare Algebra für Informatiker (Vorlesung & Übung, 3+2 SWS)	WS 21/22	**1.0**	BE	6	**6**
WP 43	Stochastik und Statistik (Vorlesung & Übung, 4+2 SWS)	SS 22	**1.0**	BE	9	**9**
WP 25	**Fachübergreifende Kompetenzen**					
WP 25.2	Praktikum im Bereich IT-Support bei Guangzhou HuaHeChen Information Technology Co., Ltd. (China)	SS 22		AK		**3**
WP 25.3	Starting Up – From Ideas to Successful Business	WS 22/23		AK		**3**
WP 25.4	Scientific Writing (Online-Kurs, 2 SWS)	SS 22		BE	3	**3**
Vertiefende Themen der Informatik für Bachelor						
	Multimedia-Programmierung (Vorlesung & Übung, 2+3 SWS)	SS 22	3.0	BE	6	**6**
	Mensch-Maschine-Interaktion (Vorlesung & Übung, 3+2 SWS)	SS 22	3.7	BE	6	**6**
	Data Mining Algorithmen I (Vorlesung & Übung, 3+2 SWS)	WS 23/24	3.3	BE	6	**6**
Anwendungsfach Computerlinguistik						
WP 40	Einführung in die Computerlinguistik (Vorlesung & Übung, 3+1 SWS)	WS 21/22	**1.0**	BE	6	**6**
WP 41	**Programmieren linguistischer Anwendungen**					
WP 41.1	Symbolische Programmiersprache (Vorlesung, 2 SWS)	WS 22/23	**1.0**	BE	3	**3**
WP 41.2/3	Computerlinguistische Anwendungen (Vorlesung & Übung, 3+2 SWS)	SS 22	**1.3**	BE	9	**9**
WP 42	Information Retrieval (Kurs & Seminar, 3+1 SWS)	SS 21		BE	6	**6**
WP 43	Syntax natürlicher Sprachen (Vorlesung & Übung, 2+2 SWS)	WS 22/23	**1.3**	BE	6	**6**

Fortsetzung der Auflistung auf nächster Seite

Modul	Prüfungsleistung	Semester	Note	Status	ECTS	ECTS
P 13	**Bachelormodul**					
P 13.1	Bachelorarbeit: Exploring the Gap between Unsupervised, Semi-Supervised, and Active Domain Adaptation Methods	WS 23/24	**2.3**	BE	12	**12**
P 13.2	Disputation	WS 23/24	**3.0**	BE	3	**3**
Ende der Auflistung – Gesamtnote / Summe der ECTS-Punkte:			**1.34**		174	**180**

Erläuterungen zur Leistungstabelle

Modul: Bezeichnung des Moduls oder Teilmoduls gemäß Prüfungsordnung

Prüfungsleistung: Bezeichnung der Prüfungsleistung

Semester: Semester des Leistungserwerbs bzw. der Leistungsverbuchung

Note: Die Leistungen in den einzelnen Prüfungsgebieten werden bezeichnet mit 1 = sehr gut; 2 = gut; 3 = befriedigend; 4 = ausreichend; 5 = nicht ausreichend; keine Angabe = ohne Benotung. Zur differenzierteren Bewertung der Leistung können die Notenziffern erniedrigt oder erhöht werden. Bewertungen kleiner als 1,0 und größer als 5,0 sind ausgeschlossen. Die Gesamtnote ergibt sich als arithmetisches Mittel der verbuchten Modul- bzw. Teilmodulnoten gewichtet nach ECTS-Punkten, wobei nur die fettgedruckten Noten in vollem Umfang berücksichtigt sind.

Status: BE = bestanden; AK = anerkannte Leistung; AN = angemeldet; NB = nicht bestanden; EN = endgültig nicht bestanden

ECTS: Punkteanzahl nach dem European credit transfer system. Die letzte Spalte (fettgedruckt) gibt den gegenwärtigen Stand der im Studiengang verbuchten Punkteanzahl an, die vorletzte Spalte die Punkteanzahl der eingebrachten Leistungen unabhängig vom Studiengang. Eingeklammerte ECTS-Punkte dienen lediglich der rechnerischen Zuordnung.

Alle erforderlichen Prüfungen im Studiengang Bachelor Informatik sind erfolgreich absolviert. Die Gesamtnote ist 1.34.

Eine Kopie dieses Ausdrucks ist unter der links unten stehenden ID beim zuständigen Prüfungsamt hinterlegt.

Florian Lang
Sachbearbeiter Prüfungsamt Informatik

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

FACULTY OF MATHEMATICS, COMPUTER SCIENCE AND STATISTICS
LEISTUNGSNACHWEIS

Li, Zonggen
born 01.10.1998 in Qingdao
Student ID: 12355870

Munich, 9. März 2024

Program: Bachelor Computer Science **Minor: Computational linguistics**

Transcript of Records in accordance with the examination regulations for the Bachelor's program in Computer Science issued on September 29, 2010

Module	List of credit courses	Semester	Grade	Status	CP	CP
Major: Computer Science						
P 1	Introduction to programming (lecture & exercise)	WS 21/22	**1.7**	PA	9	**9**
P 2	Programming and modeling (lecture & exercise)	SS 21	**1.0**	PA	6	**6**
P 3	Algorithms and data structures (lecture & exercise)	SS 21	**1.0**	PA	6	**6**
P 4	Computer architecture (lecture & exercise)	SS 21	**1.0**	PA	6	**6**
P 5	Operating systems (lecture & exercise)	WS 21/22	**1.0**	PA	6	**6**
P 6.1-2	Computer networks and distributed systems (lecture & exercise)	SS 22	3.7	PA	6	**6**
P 7	Software engineering (lecture & exercise)	WS 23/24	2.7	PA	6	**6**
P 8	Formal languages and complexity (lecture & exercise)	SS 22	**1.7**	PA	6	**6**
P 9	Formal specification and verification (lecture & exercise)	WS 22/23	**1.0**	PA	6	**6**
P 10	Database systems (lecture & exercise)	WS 21/22	**1.0**	PA	6	**6**
P 12	Logic and discrete structures (lecture & exercise)	SS 21	**1.0**	PA	6	**6**
P 6.3	**Seminar on General Topics of Computer Science**					
	Basic seminar on evolutionary algorithms (seminar)	WS 22/23	**2.3**	PA	3	**3**
Elective Domain: Practical Training						
WP 2	Practical course operating systems (lecture & practical)	WS 22/23	**1.0**	PA	12	**12**
Domain: Mathematics						
WP 10	Analysis for computer scientists (lecture & exercise)	WS 21/22	**1.7**	PA	9	**9**
WP 11	Linear algebra for computer scientists (lecture & exercise)	WS 21/22	**1.0**	PA	6	**6**
WP 43	Stochastics and statistics (lecture & exercise)	SS 22	**1.0**	PA	9	**9**
WP 25	**Soft- and Hardskills**					
WP 25.2	Internship (IT Support) at Guangzhou HuaHeChen Information Technology Co., Ltd. (China)	SS 22		TR		**3**
WP 25.3	Starting Up – From Ideas to Successful Business	WS 22/23		TR		**3**
WP 25.4	Scientific Writing (online course)	SS 22		PA	3	**3**
Advanced topics in computer science for bachelor						
	Multimedia programming (lecture & exercise)	SS 22	3.0	PA	6	**6**
	Human-computer interaction (lecture & exercise)	SS 22	3.7	PA	6	**6**
	Data mining algorithmen 1 (lecture & exercise)	WS 23/24	3.3	PA	6	**6**
Minor: Computational Linguistics						
WP 40	Introduction to computational linguistics (lecture & exercise)	WS 21/22	**1.0**	PA	6	**6**
WP 41	**Programming of linguistic applications**					
WP 41.1	Symbolic programming (lecture)	WS 22/23	**1.0**	PA	3	**3**
WP 41.2/3	Computational linguistic applications (lecture & exercise)	SS 22	**1.3**	PA	9	**9**
WP 42	Information retrieval (course & seminar)	SS 21		PA	6	**6**
WP 43	Syntax of natural languages (lecture & exercise)	WS 22/23	**1.3**	PA	6	**6**

Listing continued on next page

Module	List of credit courses continued	Semester	Grade	Status	CP	CP
P 13	**Examination module**					
P 13.1	Bachelor's Thesis: Exploring the Gap between Unsupervised, Semi-Supervised, and Active Domain Adaptation Methods	WS 23/24	**2.3**	PA	12	**12**
P 13.2	Viva Voce	WS 23/24	**3.0**	PA	3	**3**
End of transcript – Overall grade / Total of credit points:			**1.34**		174	**180**

Explanations of the listing

Grades on each piece of work are indicated as: 1 = very good; 2 = good; 3 = satisfactory; 4 = sufficient; 5 = not sufficient. To guarantee a higher degree of differentiation, grades may be decreased or increased. Grades better than 1.0 and worse than 4.0 (except 5.0) are not possible. The overall grade is computed as the arithmetic mean of the graded courses weighted according to credit points; only the grades in bold face are fully considered.

Status: PA = passed; TR = transferred; SU = signed up; FA = failed; TF = totally failed

CP: credit points according to the ECTS (European Credit Transfer System). In the second last column the credit points of each listed course is given, the last column (bold face) displays the credit points imputed according to the underlying degree program.

The student has passed all required examinations in the program.The overall grade is 1.34.

A copy of this print-out is kept by the examination office in charge under the ID given bottom left.

Florian Lang
Official in Charge
Examination Office Computer Science

Zonggen Li

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Education

University of Munich (LMU Munich) — *Munich, Germany*

Bachelor of Science in Computer Science (*Minor:* Computational Linguistics) — Apr. 2021 - Present

GPA: 1.3/1.0 **(Highest Honours)**

Technical University of Dresden — *Dresden, Germany*

German intensive course (A2 - C1) — Nov. 2019 - Mar. 2021

Skills

Domain Java, C/C++, Python, Haskell, SQL, C#, R, Git, Shell, LaTeX, Markdown

ML/AI Frameworks NLTK, Scikit-Learn, TensorFlow, Keras, PyTorch

Languages Mandarin (native); English (fluent); German (fluent); Japanese (elementary)

Publications

[1] Xu Gu, Peng Lu, **Zonggen Li**, et al. "*AGCVT-Prompt: A Prompt Learning Method for Automatically Generating Chain of Thought and Verbalize*", *Engineering Applications of Artificial Intelligence*. [Link]

[2] Kunlin Xie, **Zonggen Li**, Yuhang Dai, et al. "*Sweeping Robot Path Planning Based on Heuristic Search Algorithm*", *Journal of Xihua University (Natural Science Edition)*. [Link]

Academic Experience

Exploring the Gap between Unsupervised, Semi-Supervised, and Active Domain Adaptation Methods — *University of Munich*

Undergraduate Dissertation; Advisor: Prof. Dr. Thomas Seidl (Chair of Database Systems and Data Mining) — Aug. 2023 - Jan. 2024

- The efficiency gap between the two in different scenarios is explored by experimentally quantifying some of the current mainstream active and unsupervised domain adaptation methods.

A Review of Differential Evolution — *University of Munich*

Seminar Report; Advisor: Prof. Dr. Eyke Hüllermeier (Chair of AI and Machine Learning) — Oct. 2022 - Mar. 2023

- Researched the procedures and applications of evolutionary algorithms, in particular Differential Evolution algorithm.

Symbolic Programming & Computational Linguistic Applications — *University of Munich*

Term Project; Advisor: Prof. Dr. Barbara Plank (Chair of AI and Computational Linguistics) — Apr. 2022 - Apr. 2023

- Tackled NLP tasks, such as Sentiment Analysis, Parsing/Chunking, Relation Extraction, Named Entity Recognition, Semantic Analysis, Word Sense Disambiguation and Coreference Resolution.

Effects of the choice of information retrieval models on ranking — *Bundeswehr University Munich*

Curriculum Paper; Advisor: Prof. Dr. phil. Michaela Geierhos (Professor of Data Science) — Apr. 2021 - Aug. 2021

- By analyzing the advantages and disadvantages of different models (i.e.: boolean, vector space and probabilistic models), their applicable ranking is discussed. And the future direction of information retrieval models is discussed based on the characteristics of each model.

Awards and Honors

Oct. 2023	**Scholarship**: Deutschlandstipendium (Germany National Scholarship, 1.5%)	*Germany*
Oct. 2022	**Scholarship**: Deutschlandstipendium (Germany National Scholarship, 1.5%)	*Germany*
Jun. 2019	**Contest**: The 3rd Prize in the "9th MathorCup University Mathematical Modelling Challenge"	*China*
Sept. 2018	**Honorary Title**: "Outstanding Volunteer of Advanced Seminar Series on Intelligent Automation (ASSIA)"	*China*
May. 2018	**Contest**: The 3rd Prize in the "8th MathorCup University Mathematical Modelling Challenge"	*China*

Additional

Teaching & Research Assistant

Munich AI & NLP Research Lab — Aug. 2023 - Present

Assisted Prof. Dr. Barbara Plank in NLP-related courses and seminars:

WS 23/24: Formal Language, Symbolic Programming

SS 2024: Computer-assisted Morphology, Linguistic Annotation Frameworks & Lexical Semantics

Peer Reviwer

Journal: Data Intelligence — Jun. 2023 - Present

offered suggestions for improvement and revision

Amazon Future Engineer Mentoring-Programm

Mentee — Feb. 2023 - Present