

Vorlesungsverzeichnis

Master of Science - Data Science
Prüfungsversion Wintersemester 2018/19

Sommersemester 2023

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Abkürzungsverzeichnis

Veranstaltungsarten

AG	Arbeitsgruppe
B	Blockveranstaltung
BL	Blockseminar
DF	diverse Formen
EX	Exkursion
FP	Forschungspraktikum
FS	Forschungsseminar
FU	Fortgeschrittenenübung
GK	Grundkurs
HS	Hauptseminar
KL	Kolloquium
KU	Kurs
LK	Lektürekurs
LP	Lehrforschungsprojekt
OS	Oberseminar
P	Projektseminar
PJ	Projekt
PR	Praktikum
PS	Proseminar
PU	Praktische Übung
RE	Repetitorium
RV	Ringvorlesung
S	Seminar
S1	Seminar/Praktikum
S2	Seminar/Projekt
S3	Schulpraktische Studien
S4	Schulpraktische Übungen
SK	Seminar/Kolloquium
SU	Seminar/Übung
TU	Tutorium
U	Übung
UN	Unterricht
UP	Praktikum/Übung
UT	Übung / Tutorium
V	Vorlesung
VE	Vorlesung/Exkursion
VP	Vorlesung/Praktikum
VS	Vorlesung/Seminar
VU	Vorlesung/Übung
W	Werkstatt
WS	Workshop

BlockSaSo Block (inkl. Sa,So)

Andere

N.N.	Noch keine Angaben
n.V.	Nach Vereinbarung
LP	Leistungspunkte
SWS	Semesterwochenstunden
	Belegung über PULS
	Prüfungsleistung
	Prüfungsnebenleistung
	Studienleistung
	sonstige Leistungserfassung

Veranstaltungsrhythmen

wöch.	wöchentlich
14t.	14-täglich
Einzel	Einzeltermin
Block	Block
BlockSa	Block (inkl. Sa)

Vorlesungsverzeichnis

Bridge Modules

FM2 - Foundations of Computer Science

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

MAT-DSBM1 - Foundations of Stochastics

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

Compulsory Modules

MATVMD837 - Statistical Data Analysis

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

MATVMD838 - Bayesian Inference and Data Assimilation

101504 VU - Bayesian inference and data assimilation							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mi	08:15 - 09:45	wöch.	2.27.0.01	19.04.2023	Prof. Dr. Sebastian Reich, Dr. Jana de Wiljes
Alle	V	Do	08:15 - 09:45	wöch.	2.14.0.47	20.04.2023	Prof. Dr. Sebastian Reich, Dr. Jana de Wiljes
1	U	Do	10:15 - 11:45	wöch.	2.05.1.10	20.04.2023	Jin Kim
2	U	Mi	16:15 - 17:45	wöch.	2.09.0.12	19.04.2023	Dr. rer. nat. César Ali Ojeda Marin
Leistungen in Bezug auf das Modul							
PNL	517411	- Vertiefende Vorlesung im Bereich Bayes'sche Inferenz und Datenassimilation und Übung (unbenotet)					

INF-DS-C1 - Machine Learning

101336 VU - Intelligente Datenanalyse & Maschinelles Lernen I							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mo	14:00 - 16:00	wöch.	2.70.0.10	17.04.2023	Prof. Dr. Tobias Scheffer
Alle	V	Mo	14:00 - 16:00	Einzel	2.70.0.01	03.07.2023	Prof. Dr. Tobias Scheffer
1	U	Mi	14:00 - 16:00	wöch.	2.70.0.11	19.04.2023	Prof. Dr. Tobias Scheffer
2	U	Do	16:00 - 18:00	wöch.	2.70.0.11	20.04.2023	Prof. Dr. Tobias Scheffer
3	U	Fr	14:00 - 16:00	wöch.	2.70.0.11	21.04.2023	Prof. Dr. Tobias Scheffer
3	U	Fr	14:00 - 16:00	14t.	2.70.0.01	28.04.2023	Prof. Dr. Tobias Scheffer
Kommentar							
Die Veranstaltung beschäftigt sich mit Algorithmen, die aus Daten lernen können. Algorithmen des maschinellen Lernens gewinnen aus Daten Modelle, mit denen sich dann Vorhersagen über das beobachtete System treffen lassen. Anwendungen für Datenanalyse-Verfahren erstrecken sich von der Vorhersage von Kreditrisiken über die Auswertung astronomischer Daten bis zu persönlichen Musikempfehlungen. Die Veranstaltung setzt sich aus einem Vorlesungs- und einem Projektteil zusammen. Der Vorlesungsteil vermittelt die Grundlagen des maschinellen Lernens. Im Projektteil werden anwendungsnahe Aufgaben eigenständig in Python bearbeitet.							
Leistungsnachweis							
Projektaufgabe, Klausur oder mündliche Prüfung							

Leistungen in Bezug auf das Modul

PNL 557103 - Laborübung (unbenotet)

INF-DS-C2 - Data Infrastructures and Software Engineering **101349 VU - Principles of Data- and Knowledge-Base Systems**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Fr	14:00 - 16:00	wöch.	2.25.F0.01	21.04.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	wöch.	2.70.0.10	05.05.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	Einzel	2.25.F0.01	09.06.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	wöch.	2.25.F0.01	21.07.2023	Prof. Dr. Torsten Schaub
1	U	Di	16:00 - 18:00	wöch.	2.70.0.11	18.04.2023	Francois Laferriere
In deutsch.							
2	U	Do	16:00 - 18:00	wöch.	2.70.0.10	20.04.2023	Francois Laferriere
in english.							

KommentarMoodle course: [moodle](#)**Literatur**

Principles of Database & Knowledge-Base Systems by Jeffrey D. Ullman W. H. Freeman & Co. New York, NY, USA

Leistungen in Bezug auf das Modul

PNL 557111 - Vorlesung und Übung (unbenotet)

 101350 PR - Principles of Data- and Knowledge-Base Systems

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PR	Mo	16:00 - 18:00	wöch.	2.70.0.11	17.04.2023	Prof. Dr. Torsten Schaub, Francois Laferriere

KommentarMoodle course: [moodle](#)**Literatur**

Principles of Database & Knowledge-Base Systems by Jeffrey D. Ullman W. H. Freeman & Co. New York, NY, USA

 101372 VU - Research Software Engineering

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Di	14:00 - 16:00	wöch.	2.70.0.01	18.04.2023	Prof. Dr. Anna-Lena Lamprecht
1	U	Mi	10:00 - 12:00	wöch.	2.70.0.05	26.04.2023	Prof. Dr. Anna-Lena Lamprecht
2	U	Mi	12:00 - 14:00	wöch.	2.70.0.05	19.04.2023	Prof. Dr. Anna-Lena Lamprecht

Kommentar

Software is vital for contemporary research: The most precious data is worthless without suitable software to process and analyze it. Over the past decade, Research Software Engineering (RSE) has formed as a new discipline to professionalize the development of software for scientific applications.

This course is an introduction to Research Software Engineering. It is intended for students who are already using Python (or a similar programming language) for data analysis, and who want to take their coding and software development skills to the next level. The course covers topics like version control with Git/GitLab, coding standards, development processes, requirements analysis, software architectures and design, testing and error handling, software licensing, software publication and citation, building command-line tools, configurable programs, creating packages, and workflow automation.

The weekly lectures are accompanied by exercise sessions to practice the concepts and techniques discussed. Students will furthermore work on two research software projects during the course, the first individually and the second in an interdisciplinary team. For both, students are invited to bring their own research ideas and problems.

Voraussetzung

The course assumes basic programming skills in Python (e.g. as acquired in "Grundlagen der Programmierung") and builds on that. You should be comfortable doing things like reading data from files and writing loops, conditionals, and functions. If you know another imperative programming language well, you can probably manage to pick up enough Python during the course.

Literatur

The course uses the textbook "Research Software Engineering with Python" (D. Irving et al., 2021, <https://merely-useful.tech/py-rse/index.html>) and selected additional material (provided in the course).

Leistungsnachweis

Projects and (written or oral) exam.

Bemerkung

The course "Forschungsdatenmanagement/Research Data Management" (taught by Prof. Dr. Lucke) complements this course with a focus on how to manage research data professionally.

Lerninhalte

Learning outcomes of this course include:

- Organize small and medium-sized data science projects.
- Use the Unix shell to efficiently manage your data and code.
- Write Python programs that can be used on the command line.
- Use Git to track and share your work.
- Work productively in a small team where everyone is welcome.
- Enable users to configure your software without modifying it directly.
- Analyse requirements and develop suitable software architectures.
- Organise code in a modular and sustainable way.
- Test your software and know which parts have not yet been tested.
- Find, handle, and fix errors in your code.
- Publish your code and research in open and reproducible ways.
- Create Python packages that can be installed in standard ways.
- Use Make, SnakeMake and other workflow managers to automate complex workflows.

Zielgruppe

Students from all disciplines who have at least basic programming skills (preferably in Python) and want to learn more about conducting research software projects professionally.

Leistungen in Bezug auf das Modul

PNL 557111 - Vorlesung und Übung (unbenotet)

INF-DS-C3 - Data Science and Business Analytics

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

INF-DS-C4 - Applied Data Science **99952 VU - Complexity Science**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Mo	08:15 - 09:45	wöch.	2.05.1.12	17.04.2023	Professor Karoline Wiesner
1	U	Mo	10:15 - 11:45	wöch.	2.28.1.084	17.04.2023	Professor Karoline Wiesner
PHY-741c, INF-DS-C4, MATVMD941 (WiSe), MATVMD942 (SoSe), MATVMD921 (SoSe), MATVMD922 (WiSe), (2V+2Ue)							
2	U	Mo	10:15 - 11:00	wöch.	2.28.1.084	17.04.2023	Professor Karoline Wiesner
PHY-541c (2V+1Ue)							

Kommentar

The course gives an overview of the research field of complexity science. **First lecture 17 April 2023 at 9 am.**

If you are interested in taking the course but cannot attend on Monday 17 April do write to me :: email karoline.wiesner@uni-potsdam.de.

Topics include

on the theory side: Shannon information theory, equilibrium statistical mechanics, network theory and

on the applications side: physics, climate science, social science.

The lecture times (currently Mondays 8am) will be decided in the first week of term, depending on the schedule of the participants.

Moodle page (key he9djs)

<https://moodle2.uni-potsdam.de/course/view.php?id=31361>

Voraussetzung

Mathematics: A strong background in mathematics is essential for understanding complex systems. Students should have a good understanding of calculus, linear algebra, probability theory, and statistics.

Programming: Students should have experience in programming, preferably in a language such as Python, or R, which are commonly used in complex systems modeling and analysis.

Physics: A basic understanding of physics, including mechanics, thermodynamics, and statistical mechanics, is helpful in understanding the dynamics of complex systems.

Literatur

As introduction I recommend chapters 1 and 2 of the book "What is a complex system?", available as e-book through the University library (you have to be on the University's VPN network).

The direct link:

<https://www.degruyter.com/document/doi/10.12987/9780300256130/html>

Leistungen in Bezug auf das Modul

PNL 557132 - Übung oder Projekt (unbenotet)

 101345 DF - Multi-agent path finding

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	Mo	12:00 - 14:00	wöch.	2.70.0.08	17.04.2023	Prof. Dr. Torsten Schaub, Etienne Tignon

Kommentar

Multi-agent path finding is the name of the problem of planning the path of a multitude of agents. The goal is to avoid collisions between the agents while optimizing the paths. In this lecture, the students will read relevant papers on the subject, write summaries about them and participate in a practical project.

Knowledge about ASP is mandatory for this course. Taking this course and the "Answer Set Solving in Practice" course in the same semester is discouraged.

There is the link to the moodle page.

The password is mapf29138mcp

Leistungen in Bezug auf das Modul

PNL 557132 - Übung oder Projekt (unbenotet)

101509 VU - Theoretical Systems Biology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	U	Mo	14:15 - 15:45	wöch.	2.09.0.12	17.04.2023	Cédric Moris
1	V	Mi	08:15 - 09:45	wöch.	2.10.0.26	19.04.2023	Dr. Niklas Hartung

Kommentar

NOTE: Instead of the first lecture (April 19th), you will find online material on the Moodle course page (--> [LINK](#)). Also, there is no exercise class in the first week (April 17th). Starting with the 2nd semester week (April 24th), all lectures/exercises will take place on-site.

Leistungen in Bezug auf das Modul

PNL 557132 - Übung oder Projekt (unbenotet)

Elective Modules - Research Modules

INF-DS-RMA - Research Module A**101274 S - Social Media and Business Analytics Project**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Di	14:00 - 18:00	wöch.	N.N.	18.04.2023	Margarita Gladkaya, Olga Abramova

Links:

Moodle <https://moodle2.uni-potsdam.de/course/view.php?id=37027>

Kommentar

The first class will take place on 25.04.2023 - Introductory session (kick-off, topics presentation).

Location: Digital Villa (Karl-Marx-Strasse 67, 14482 Potsdam)

Room: KMS67. 1.10

Please self-enroll in the Moodle course: <https://moodle2.uni-potsdam.de/course/view.php?id=37027>, password smba2023

Please expect information updates after 18.04., not earlier.

Please refrain from writing individual emails about topics and organization. These will be announced during the 1st session.

Instead, invest time thoroughly reading the 2 papers (uploaded to Moodle).

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Believe us: A return on investment is huge within this course.

Literatur

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Leistungsnachweis

The project is 15 ECTS worth and can be taken only after successful completion of the seminar.

Source: <https://www.uni-potsdam.de/de/studium/studienangebot/masterstudium/master-a-z/wirtschaftsinformatik-und-digitale-transformation-master>

Bemerkung

Raum wird noch bekannt gegeben.

Lerninhalte

The course implies a high degree of motivation and independence. At the same time, we aim to have a fair "give-and-take" and will hold several lectures, practice sessions, and consultations to ensure you are on a good track with your own research.

Broadly, the topics correspond to our research interests and include digital unfollowing, perfectionism on social media (Rita) as well as technology & future of work, human – AI interaction, messy vs. tidy online environment & decision-making, self-referential information on social media (Olga).

Leistungen in Bezug auf das Modul

SL 557141 - Vorlesung oder Seminar (unbenotet)

SL 557142 - Übung oder Projekt (unbenotet)

101326 PJ - Research Module A

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Tobias Scheffer

Leistungen in Bezug auf das Modul

SL 557142 - Übung oder Projekt (unbenotet)

101368 PJ - Intelligent Logistics Technology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	Mo	14:00 - 16:00	wöch.	2.70.0.08	17.04.2023	Prof. Dr. Torsten Schaub, Balázs Amadé Nemes, Javier Romero Davila, Francois Laferriere, Etienne Tignon

Kommentar

In this project, student teams build software systems addressing problems in warehouse logistics using problem solvers for answer set programming

Voraussetzung

Knowledge in answer set programming (and python).

Leistungsnachweis

Implementation, evaluation, presentation, and documentation.

Bemerkung

Offline communication is conducted primarily via the associated moodle page.

Announcements are also made through the email list of registered students in puls.

Questions can be address to krprojects@lists.cs.uni-potsdam.de .

Lerninhalte

On individual basis.

Kurzkommentar

Joint kick-off event for all projects of the professorship Knowledge Processing and Information Systems as announced in course catalog of the department and the associated moodle page.
[moodle](#)

Zielgruppe

Students interested in applying AI-techniques in logistics

Leistungen in Bezug auf das Modul

SL 557142 - Übung oder Projekt (unbenotet)

101370 PJ - Declarative Problem Solving							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	Mo	14:00 - 16:00	wöch.	2.70.0.08	17.04.2023	Francois Laferriere, Javier Romero Davila, Prof. Dr. Torsten Schaub, Balázs Amadé Nemes

Kommentar

In this project, student teams build software systems whose core consists of problem solvers for combinatorial (optimization) problems, like answer set programming

Voraussetzung

Good knowledge in ASP and/or SAT.

Leistungsnachweis

Implementation, evaluation, presentation, and documentation

Bemerkung

Offline communication is conducted primarily via the associated moodle page.

Announcements are also made through the email list of registered students in puls.

Questions can be address to krprojects@lists.cs.uni-potsdam.de. krprojects@lists.cs.uni-potsdam.de

Lerninhalte

On individual basis

Kurzkommentar

Joint kick-off event for all projects of the professorship Knowledge Processing and Information Systems as announced in course catalogue of the department and the associated moodle page

[moodle](#)

Zielgruppe

MSc students who want to deepen their practical knowledge in declarative modelling techniques and their application

Leistungen in Bezug auf das Modul

SL 557142 - Übung oder Projekt (unbenotet)

INF-DS-RMB - Research Module B

101274 S - Social Media and Business Analytics Project							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Di	14:00 - 18:00	wöch.	N.N.	18.04.2023	Margarita Gladkaya, Olga Abramova
Links:							
Moodle			https://moodle2.uni-potsdam.de/course/view.php?id=37027				
Kommentar							
The first class will take place on 25.04.2023 - Introductory session (kick-off, topics presentation). Location: Digital Villa (Karl-Marx-Strasse 67, 14482 Potsdam) Room: KMS67. 1.10 Please self-enroll in the Moodle course: https://moodle2.uni-potsdam.de/course/view.php?id=37027 , password smba2023 Please expect information updates after 18.04., not earlier. Please refrain from writing individual emails about topics and organization . These will be announced during the 1st session. Instead, invest time thoroughly reading the 2 papers (uploaded to Moodle). • Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers • Kane G. (2022) How to Write an "A" Paper Believe us: A return on investment is huge within this course.							
Literatur							
• Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers • Kane G. (2022) How to Write an "A" Paper							
Leistungsnachweis							
The project is 15 ECTS worth and can be taken only after successful completion of the seminar. Source: https://www.uni-potsdam.de/de/studium/studienangebot/masterstudium/master-a-z/wirtschaftsinformatik-und-digitale-transformation-master							
Bemerkung							
Raum wird noch bekannt gegeben.							
Lerninhalte							
The course implies a high degree of motivation and independence. At the same time, we aim to have a fair "give-and-take" and will hold several lectures, practice sessions, and consultations to ensure you are on a good track with your own research. Broadly, the topics correspond to our research interests and include digital unfollowing, perfectionism on social media (Rita) as well as technology & future of work, human – AI interaction, messy vs. tidy online environment & decision-making, self-referential information on social media (Olga).							
Leistungen in Bezug auf das Modul							
SL	557151 - Vorlesung oder Seminar (unbenotet)						

101325 PJ - Research Module B							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	N.N.	N.N.	Block	N.N.	N.N.	Prof. Dr. Tobias Scheffer
Leistungen in Bezug auf das Modul							
SL	557152 - Übung oder Projekt (unbenotet)						

Elective Modules - Advanced Module

MAT-DSAM2A - Advanced Statistical Data Analysis A

101507 VU - Advanced Statistical Data Analysis - Non-parametric and high-dimensional statistics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	10:15 - 11:45	wöch.	2.27.1.01	18.04.2023	Prof. Dr. Alexandra Carpentier
1	V	Mi	12:15 - 13:45	wöch.	2.27.1.01	19.04.2023	Prof. Dr. Alexandra Carpentier
1	U	Do	08:15 - 09:45	wöch.	2.05.1.06	20.04.2023	Dr. Franziska Göbel
Kommentar							
Please go to the english webpage in PULS - click on EN and the british flag on the right corner - to find informations.							
Leistungen in Bezug auf das Modul							
SL	551261 - Vorlesung und Seminar (unbenotet)						

MAT-DSAM2B - Advanced Statistical Data Analysis B							
101507 VU - Advanced Statistical Data Analysis - Non-parametric and high-dimensional statistics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	10:15 - 11:45	wöch.	2.27.1.01	18.04.2023	Prof. Dr. Alexandra Carpentier
1	V	Mi	12:15 - 13:45	wöch.	2.27.1.01	19.04.2023	Prof. Dr. Alexandra Carpentier
1	U	Do	08:15 - 09:45	wöch.	2.05.1.06	20.04.2023	Dr. Franziska Göbel
Kommentar							
Please go to the english webpage in PULS - click on EN and the british flag on the right corner - to find informations.							
Leistungen in Bezug auf das Modul							
PNL	551271 - Vorlesung und Übung (unbenotet)						

MAT-DSAM3A - Advanced Data Assimilation and Modeling A							
Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten							

MAT-DSAM3B - Advanced Data Assimilation and Modeling B							
101509 VU - Theoretical Systems Biology							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	U	Mo	14:15 - 15:45	wöch.	2.09.0.12	17.04.2023	Cédric Moris
1	V	Mi	08:15 - 09:45	wöch.	2.10.0.26	19.04.2023	Dr. Niklas Hartung
Kommentar							
NOTE: Instead of the first lecture (April 19th), you will find online material on the Moodle course page (--> LINK). Also, there is no exercise class in the first week (April 17th). Starting with the 2nd semester week (April 24th), all lectures/exercises will take place on-site.							
Leistungen in Bezug auf das Modul							
PNL	551291 - Vorlesung und Übung (unbenotet)						

MAT-DSAM8A - Mathematical Foundations of Data Science A							
101507 VU - Advanced Statistical Data Analysis - Non-parametric and high-dimensional statistics							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Di	10:15 - 11:45	wöch.	2.27.1.01	18.04.2023	Prof. Dr. Alexandra Carpentier

1	V	Mi	12:15 - 13:45	wöch.	2.27.1.01	19.04.2023	Prof. Dr. Alexandra Carpentier
1	U	Do	08:15 - 09:45	wöch.	2.05.1.06	20.04.2023	Dr. Franziska Göbel

Kommentar

Please go to the english webpage in PULS - click on EN and the british flag on the right corner - to find informations.

Leistungen in Bezug auf das Modul

PNL 551313 - Übung (unbenotet)

MAT-DSAM8B - Mathematical Foundations of Data Science B

101574 S - Diskrete Spektralgeometrie							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mi	12:15 - 13:45	wöch.	N.N.	19.04.2023	Prof. Dr. Matthias Keller, Dr. rer. nat. Siegfried Beckus

Raum 2.09.0.17

Leistungen in Bezug auf das Modul

PNL 551322 - Vorlesung und Übung (unbenotet)

BM3 - Advanced Problem Solving Techniques

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

INF-DSAM1A - Advanced Machine Learning A

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

INF-DSAM1B - Advanced Machine Learning B

Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.10.2023 begonnen haben. Das Modul läuft spätestens am 30.09.2025 aus.

101371 S2 - Graph-konvolutionale neuronale Netze							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mo	10:00 - 12:00	wöch.	2.70.0.08	17.04.2023	Prof. Dr. Tobias Scheffer
1	PJ	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Tobias Scheffer

Leistungen in Bezug auf das Modul

PNL 557172 - Seminar (unbenotet)

101807 VU - Competitive Programming with Deep Learning							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Tobias Friedrich

Kommentar

Angaben zum Lehrinhalt in der Beschreibung aufrufbar unter <https://hpi.de/studium/lehveranstaltungen.html>

Voraussetzung

Voraussetzungen werden in den Lehrinhaltsbeschreibungen unter <https://hpi.de/studium/lehveranstaltungen.html> benannt.

Bemerkung

Unter <https://hpi.de/studium/lehveranstaltungen.html> sind folgende Angaben aufrufbar:

- Raum und Zeit
- Lehrinhalt und Leistungserfassung
- Teilnehmerbegrenzung

Leistungen in Bezug auf das Modul

PNL 557172 - Seminar (unbenotet)

101939 SU - Dynamic Programming and Reinforcement Learning

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	SU	N.N.	N.N.	wöch.	N.N.	N.N.	Dr. Rainer Schlosser, Alexander Kastius

Links:

Weitere Informationen <https://hpi.de/studium/im-studium/lehveranstaltungen/data-engineering-ma/lehveranstaltung/sose-23-3735-dynamic-programming-and-reinforcement-learning.html>

Leistungen in Bezug auf das Modul

PNL 557172 - Seminar (unbenotet)

INF-DSAM4A - Advanced Infrastructures and Software Engineering A**101349 VU - Principles of Data- and Knowledge-Base Systems**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Fr	14:00 - 16:00	wöch.	2.25.F0.01	21.04.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	wöch.	2.70.0.10	05.05.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	Einzel	2.25.F0.01	09.06.2023	Prof. Dr. Torsten Schaub
Alle	V	Fr	14:00 - 16:00	wöch.	2.25.F0.01	21.07.2023	Prof. Dr. Torsten Schaub
1	U	Di	16:00 - 18:00	wöch.	2.70.0.11	18.04.2023	Francois Laferriere

In deutsch.

2	U	Do	16:00 - 18:00	wöch.	2.70.0.10	20.04.2023	Francois Laferriere
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in english.

Kommentar

Moodle course: [moodle](#)

Literatur

Principles of Database & Knowledge-Base Systems by Jeffrey D. Ullman W. H. Freeman & Co. New York, NY, USA

Leistungen in Bezug auf das Modul

PNL 557181 - Vorlesung und Übung (unbenotet)

101372 VU - Research Software Engineering

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Di	14:00 - 16:00	wöch.	2.70.0.01	18.04.2023	Prof. Dr. Anna-Lena Lamprecht
1	U	Mi	10:00 - 12:00	wöch.	2.70.0.05	26.04.2023	Prof. Dr. Anna-Lena Lamprecht
2	U	Mi	12:00 - 14:00	wöch.	2.70.0.05	19.04.2023	Prof. Dr. Anna-Lena Lamprecht

Kommentar

Software is vital for contemporary research: The most precious data is worthless without suitable software to process and analyze it. Over the past decade, Research Software Engineering (RSE) has formed as a new discipline to professionalize the development of software for scientific applications.

This course is an introduction to Research Software Engineering. It is intended for students who are already using Python (or a similar programming language) for data analysis, and who want to take their coding and software development skills to the next level. The course covers topics like version control with Git/GitLab, coding standards, development processes, requirements analysis, software architectures and design, testing and error handling, software licensing, software publication and citation, building command-line tools, configurable programs, creating packages, and workflow automation.

The weekly lectures are accompanied by exercise sessions to practice the concepts and techniques discussed. Students will furthermore work on two research software projects during the course, the first individually and the second in an interdisciplinary team. For both, students are invited to bring their own research ideas and problems.

Voraussetzung

The course assumes basic programming skills in Python (e.g. as acquired in "Grundlagen der Programmierung") and builds on that. You should be comfortable doing things like reading data from files and writing loops, conditionals, and functions. If you know another imperative programming language well, you can probably manage to pick up enough Python during the course.

Literatur

The course uses the textbook "Research Software Engineering with Python" (D. Irving et al., 2021, <https://merely-useful.tech/py-rse/index.html>) and selected additional material (provided in the course).

Leistungsnachweis

Projects and (written or oral) exam.

Bemerkung

The course "Forschungsdatenmanagement/Research Data Management" (taught by Prof. Dr. Lucke) complements this course with a focus on how to manage research data professionally.

Lerninhalte

Learning outcomes of this course include:

- Organize small and medium-sized data science projects.
- Use the Unix shell to efficiently manage your data and code.
- Write Python programs that can be used on the command line.
- Use Git to track and share your work.
- Work productively in a small team where everyone is welcome.
- Enable users to configure your software without modifying it directly.
- Analyse requirements and develop suitable software architectures.
- Organise code in a modular and sustainable way.
- Test your software and know which parts have not yet been tested.
- Find, handle, and fix errors in your code.
- Publish your code and research in open and reproducible ways.
- Create Python packages that can be installed in standard ways.
- Use Make, SnakeMake and other workflow managers to automate complex workflows.

Zielgruppe

Students from all disciplines who have at least basic programming skills (preferably in Python) and want to learn more about conducting research software projects professionally.

Leistungen in Bezug auf das Modul

PNL 557181 - Vorlesung und Übung (unbenotet)

INF-DSAM4B - Advanced Infrastructures and Software Engineering B

101372 VU - Research Software Engineering							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
Alle	V	Di	14:00 - 16:00	wöch.	2.70.0.01	18.04.2023	Prof. Dr. Anna-Lena Lamprecht
1	U	Mi	10:00 - 12:00	wöch.	2.70.0.05	26.04.2023	Prof. Dr. Anna-Lena Lamprecht
2	U	Mi	12:00 - 14:00	wöch.	2.70.0.05	19.04.2023	Prof. Dr. Anna-Lena Lamprecht
Kommentar							
Software is vital for contemporary research: The most precious data is worthless without suitable software to process and analyze it. Over the past decade, Research Software Engineering (RSE) has formed as a new discipline to professionalize the development of software for scientific applications. This course is an introduction to Research Software Engineering. It is intended for students who are already using Python (or a similar programming language) for data analysis, and who want to take their coding and software development skills to the next level. The course covers topics like version control with Git/GitLab, coding standards, development processes, requirements analysis, software architectures and design, testing and error handling, software licensing, software publication and citation, building command-line tools, configurable programs, creating packages, and workflow automation. The weekly lectures are accompanied by exercise sessions to practice the concepts and techniques discussed. Students will furthermore work on two research software projects during the course, the first individually and the second in an interdisciplinary team. For both, students are invited to bring their own research ideas and problems.							
Voraussetzung							
The course assumes basic programming skills in Python (e.g. as acquired in "Grundlagen der Programmierung") and builds on that. You should be comfortable doing things like reading data from files and writing loops, conditionals, and functions. If you know another imperative programming language well, you can probably manage to pick up enough Python during the course.							
Literatur							
The course uses the textbook "Research Software Engineering with Python" (D. Irving et al., 2021, https://merely-useful.tech/py-rse/index.html) and selected additional material (provided in the course).							
Leistungsnachweis							
Projects and (written or oral) exam.							
Bemerkung							
The course "Forschungsdatenmanagement/Research Data Management" (taught by Prof. Dr. Lucke) complements this course with a focus on how to manage research data professionally.							
Lerninhalte							
Learning outcomes of this course include: - Organize small and medium-sized data science projects. - Use the Unix shell to efficiently manage your data and code. - Write Python programs that can be used on the command line. - Use Git to track and share your work. - Work productively in a small team where everyone is welcome. - Enable users to configure your software without modifying it directly. - Analyse requirements and develop suitable software architectures. - Organise code in a modular and sustainable way. - Test your software and know which parts have not yet been tested. - Find, handle, and fix errors in your code. - Publish your code and research in open and reproducible ways. - Create Python packages that can be installed in standard ways. - Use Make, SnakeMake and other workflow managers to automate complex workflows.							

Zielgruppe

Students from all disciplines who have at least basic programming skills (preferably in Python) and want to learn more about conducting research software projects professionally.

Leistungen in Bezug auf das Modul

PNL 557192 - Übung oder Projekt (unbenotet)

INF-DSAM5A - Advanced Business Analytics A

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

INF-DSAM5A - Advanced Business Analytics A (expiring module)

Dieses Modul gilt, aufgrund einer Änderungssatzung, nur noch für Studierende, die das Modul vor dem 01.10.2022 begonnen haben. Das Modul läuft spätestens am 30.09.2024 aus.

101276 S - Social Media and Business Analytics Seminar

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Di	14:00 - 18:00	wöch.	KMS67.1.10	18.04.2023	Olga Abramova, Margarita Gladkaya

Kommentar

The first class will take place on 25.04.2023 - Introductory session (kick-off, topics presentation).

Location: Digital Villa (Karl-Marx-Strasse 67, 14482 Potsdam)

Room: KMS67. 1.10

Please self-enroll in the Moodle course: <https://moodle2.uni-potsdam.de/course/view.php?id=37027> , password smba2023

Please expect information updates after 18.04., not earlier.

Please refrain from writing individual emails about topics and organization . These will be announced during the 1st session.

Instead, invest time thoroughly reading the 2 papers (uploaded to Moodle).

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Believe us: A return on investment is huge within this course.

Literatur

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Leistungsnachweis

The seminar is 6 ECTS worth. If needed, we can award less ECTS.

Source: <https://www.uni-potsdam.de/de/studium/studienangebot/masterstudium/master-a-z/wirtschaftsinformatik-und-digitale-transformation-master>

Bemerkung

Raum wird noch bekannt gegeben.

Lerninhalte

The course implies a high degree of motivation and independence. At the same time, we aim to have a fair "give-and-take" and will hold several lectures, practice sessions, and consultations to ensure you are on a good track with your own research.

Broadly, the topics correspond to our research interests and include digital unfollowing, perfectionism on social media (Rita) as well as technology & future of work, human – AI interaction, messy vs. tidy online environment & decision-making, self-referential information on social media (Olga).

Leistungen in Bezug auf das Modul

PNL 557202 - Seminar 1 (unbenotet)

PNL 557203 - Seminar 2 (unbenotet)

101278 S - Social Network Analysis Seminar							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mi	12:00 - 14:00	wöch.	3.06.S12	19.04.2023	Dr. Annika Baumann
Kommentar							
In our intertwined world, everyone and everything is connected. A theory commonly known as "Six Degrees of Separation" or "Small World Phenomenon" postulates that every human being is connected to any other person through only very few others. An experiment performed by psychologist Stanley Milgram in 1967 showed that this phenomenon seems to be true indeed. Nowadays, platforms such as Social Media make it even easier to investigate the underlying social structures, with large-scale datasets readily available. However, networks not only form the underlying basis in the case of Social Media platforms but are almost everywhere we look. In the Seminar "Social Network Analysis," students will learn basic underlying graph theory, work with scientific papers using networks to investigate research questions, and independently work on a network-based project. More information can be found on Moodle: https://moodle2.uni-potsdam.de/course/view.php?id=37619							
Voraussetzung							
None							
Students will be required within the seminar to independently create and analyze a (social) network. Some basic programming skills are helpful but unnecessary, as students can choose which tool(s) to use.							
Literatur							
Barabási, A. L. (2013). Network science. Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 371(1987), 20120375.							
Leistungsnachweis							
Presentation(s) and seminar paper							
Bemerkung							
Some sessions of the seminar might be held online. More information can be found later on Moodle. Please check later for more details.							
Leistungen in Bezug auf das Modul							
PNL	557202 - Seminar 1 (unbenotet)						
PNL	557203 - Seminar 2 (unbenotet)						

101279 S - Social Media Research Seminar 2							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Hanna Krasnova
Leistungen in Bezug auf das Modul							
PNL	557202 - Seminar 1 (unbenotet)						
PNL	557203 - Seminar 2 (unbenotet)						

101639 S - Digital Business and Consumer Behavior							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Do	14:00 - 16:00	wöch.	3.06.S17	20.04.2023	Dr. Antonia Köster
1	S	Do	14:00 - 16:00	Einzel	3.07.0.39	25.05.2023	Dr. Antonia Köster

Kommentar

Dear students,

The **first kick-off session of this course will be on Thursday, April 27th**. I will present the structure of the course, topics and offer you the opportunity to ask questions.

Please make sure to register before attending the first session!

In the course, we will strongly rely on **Moodle**, where you can find more details on how the seminar will be organized and a description of the topics we will offer

Leistungsnachweis

Students will work in groups of two (or by exception to three) people.

The aim of each group is to carry out research on a selected topic. You will be presented a number of topics.

The course will comprise the following:

- 1) research exposé
- 2) in-class presentations
- 3) written seminar paper

Lerninhalte

Several platforms have gained incredible popularity in recent years (e.g., Facebook, Instagram, TikTok, etc.). Their success manifests in millions of users all around the globe spending significant time on the platforms.

By rapidly changing the way we communicate, inform ourselves, spend free time, study, work, and consume goods, social media and other digital platforms transform the society that we live in today. The new developments raise questions about their meaning and long-term consequences.

Hence, possible topics will revolve around

- 1) the motivation to use digital platforms, e.g., social media
- 2) the use of digital platforms
- 3) psychological and other outcomes of the use

Depending on the topic, students will conduct literature reviews, qualitative or quantitative studies. Close supervision is offered. Students present their preliminary results in class and submit a written paper at the end of the course.

Leistungen in Bezug auf das Modul

PNL 557202 - Seminar 1 (unbenotet)

PNL 557203 - Seminar 2 (unbenotet)

101665 S - Digital Media and Human Behavior							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	14:15 - 15:45	wöch.	3.06.S27	21.04.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.07.0.39	05.05.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.06.S13	12.05.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.06.S13	02.06.2023	Dr. Hannes-Vincent Krause, Dr. Katharina Baum

Kommentar

This seminar will provide you with direct and **hands-on** insights into **research on Social Media Platforms** and their effects on users' emotions, thoughts, and behavior.

Secifically, this seminar will explore the emotion of **shame** in the **context of Social Media usage** .

Shame is a regular day-to-day emotion, one of the so-called self-conscious emotions. Shame usually arises when we face a situation that signals that we don't meet specific social standards or our own goals and are afraid of being criticized. Shame is a regular human emotion and can have adaptive qualities. However, in most cases, it is an **unpleasant emotion** . It can lead to **severe mental-health-related consequences** if experienced chronically.

Social Media platforms have become modern-day arenas to **showcase our successes and most precious moments** . However, constant exposure to this "highlight reel" can also be a **severe downside** of Social Media usage. For a long, research has shown that this "positivity overload" can trigger harmful emotions which can seriously compromise users' well-being. Though underresearched so far, feelings of shame likely also play a role in users' emotional experiences on the platforms. Constantly looking at the seemingly perfect lives of others can bring our shortcomings to the fore, reinforcing the feeling that we will never achieve these hyper-perfect versions of life, thus providing the basis for shame. *What are the drivers of this emotion? In which situations does it arise? And what consequences does it have for users' behaviors and experiences on the platforms and beyond?* This is exactly where this seminar comes in.

Students will work in groups and **apply different methods** to tackle these research questions. The following methods are planned (one per group):

- Qualitative Methods (e.g., Interviews, Focus Groups)
- Systematic Literature Reviews
- Small-scale quantitative methods (e.g., design your own survey, analysis using e.g., multiple linear regression)

Important:

Please note that this seminar is **dedicated solely to the research question described above** , and we welcome students who bring a general interest in the topic. No other topics other than the above will be offered and supervised during the seminar. Please take this into account when choosing this seminar.

Leistungsnachweis

Project work will be conducted in groups of 2 or 3. You will conduct research on a specified research question using a method of choice (systematic literature reviews, qualitative or quantitative research methods). During your work, you will be guided and supervised by the instructors, offering periodic supervision slots throughout the semester. The course is meant for students to apply their methodological and theoretical knowledge gained in previous classes to a practical research project.

Graded tasks during the course are:

1. Mid-Term Presentation
2. Final Presentation
3. Written Research Report

Attendance during the first session (April 21) and the presentation sessions (June 2 and Juli 28) is mandatory.

Bemerkung

For the course, we will use Moodle for central communication, distribution of tasks and literature, and the submission of final reports.

The Moodle details will be added to PULS after the seminar's first session.

Zielgruppe

This course is meant for students with **at least some experience and skills in handling academic literature and mastering scientific research methods**. We offer students the unique chance to apply their previously learned skills in conducting research themselves, presenting, and summarising the findings in the form of a seminar paper.

Therefore, students are invited who have either already attended a seminar to gain first research experience or other seminars or lectures of the Chair of Information Systems, especially Social Media and Data Science (e.g., Social Media Research, Advanced Research Methods).

Leistungen in Bezug auf das Modul

PNL 557202 - Seminar 1 (unbenotet)

PNL 557203 - Seminar 2 (unbenotet)

INF-DSAM5B - Advanced Business Analytics B**101276 S - Social Media and Business Analytics Seminar**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Di	14:00 - 18:00	wöch.	KMS67.1.10	18.04.2023	Olga Abramova, Margarita Gladkaya

Kommentar

The first class will take place on 25.04.2023 - Introductory session (kick-off, topics presentation).

Location: Digital Villa (Karl-Marx-Strasse 67, 14482 Potsdam)

Room: KMS67. 1.10

Please self-enroll in the Moodle course: <https://moodle2.uni-potsdam.de/course/view.php?id=37027> , password smba2023

Please expect information updates after 18.04., not earlier.

Please refrain from writing individual emails about topics and organization . These will be announced during the 1st session.

Instead, invest time thoroughly reading the 2 papers (uploaded to Moodle).

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Believe us: A return on investment is huge within this course.

Literatur

- Baird A. (2021) On Writing Research Articles Well: A Guide for Writing IS Papers
- Kane G. (2022) How to Write an "A" Paper

Leistungsnachweis

The seminar is 6 ECTS worth. If needed, we can award less ECTS.

Source: <https://www.uni-potsdam.de/de/studium/studienangebot/masterstudium/master-a-z/wirtschaftsinformatik-und-digitale-transformation-master>

Bemerkung

Raum wird noch bekannt gegeben.

Lerninhalte

The course implies a high degree of motivation and independence. At the same time, we aim to have a fair "give-and-take" and will hold several lectures, practice sessions, and consultations to ensure you are on a good track with your own research.

Broadly, the topics correspond to our research interests and include digital unfollowing, perfectionism on social media (Rita) as well as technology & future of work, human – AI interaction, messy vs. tidy online environment & decision-making, self-referential information on social media (Olga).

Leistungen in Bezug auf das Modul

SL 557212 - Seminar (unbenotet)

 101278 S - Social Network Analysis Seminar

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Mi	12:00 - 14:00	wöch.	3.06.S12	19.04.2023	Dr. Annika Baumann

Kommentar

In our intertwined world, everyone and everything is connected. A theory commonly known as "Six Degrees of Separation" or "Small World Phenomenon" postulates that every human being is connected to any other person through only very few others. An experiment performed by psychologist Stanley Milgram in 1967 showed that this phenomenon seems to be true indeed. Nowadays, platforms such as Social Media make it even easier to investigate the underlying social structures, with large-scale datasets readily available. However, networks not only form the underlying basis in the case of Social Media platforms but are almost everywhere we look.

In the **Seminar "Social Network Analysis,"** students will learn basic underlying graph theory, work with scientific papers using networks to investigate research questions, and independently work on a network-based project.

More information can be found on Moodle: <https://moodle2.uni-potsdam.de/course/view.php?id=37619>

Voraussetzung

None

Students will be required within the seminar to independently create and analyze a (social) network. Some basic programming skills are helpful but unnecessary, as students can choose which tool(s) to use.

Literatur

Barabási, A. L. (2013). Network science. Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 371(1987), 20120375.

Leistungsnachweis

Presentation(s) and seminar paper

Bemerkung

Some sessions of the seminar might be held online.
More information can be found later on Moodle. Please check later for more details.

Leistungen in Bezug auf das Modul

SL 557212 - Seminar (unbenotet)

 101639 S - Digital Business and Consumer Behavior

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Do	14:00 - 16:00	wöch.	3.06.S17	20.04.2023	Dr. Antonia Köster
1	S	Do	14:00 - 16:00	Einzel	3.07.0.39	25.05.2023	Dr. Antonia Köster

Kommentar

Dear students,

The **first kick-off session of this course will be on Thursday, April 27th** . I will present the structure of the course, topics and offer you the opportunity to ask questions.

Please make sure to register before attending the first session!

In the course, we will strongly rely on **Moodle**, where you can find more details on how the seminar will be organized and a description of the topics we will offer

Leistungsnachweis

Students will work in groups of two (or by exception to three) people.

The aim of each group is to carry out research on a selected topic. You will be presented a number of topics.

The course will comprise the following:

- 1) research exposé
- 2) in-class presentations
- 3) written seminar paper

Lerninhalte

Several platforms have gained incredible popularity in recent years (e.g., Facebook, Instagram, TikTok, etc.). Their success manifests in millions of users all around the globe spending significant time on the platforms.

By rapidly changing the way we communicate, inform ourselves, spend free time, study, work, and consume goods, social media and other digital platforms transform the society that we live in today. The new developments raise questions about their meaning and long-term consequences.

Hence, possible topics will revolve around

- 1) the motivation to use digital platforms, e.g., social media
- 2) the use of digital platforms
- 3) psychological and other outcomes of the use

Depending on the topic, students will conduct literature reviews, qualitative or quantitative studies. Close supervision is offered. Students present their preliminary results in class and submit a written paper at the end of the course.

Leistungen in Bezug auf das Modul

SL 557212 - Seminar (unbenotet)

101665 S - Digital Media and Human Behavior							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	Fr	14:15 - 15:45	wöch.	3.06.S27	21.04.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.07.0.39	05.05.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.06.S13	12.05.2023	Dr. Katharina Baum, Dr. Hannes-Vincent Krause
1	S	Fr	14:15 - 15:45	Einzel	3.06.S13	02.06.2023	Dr. Hannes-Vincent Krause, Dr. Katharina Baum

Kommentar

This seminar will provide you with direct and **hands-on** insights into **research on Social Media Platforms** and their effects on users' emotions, thoughts, and behavior.

Secifically, this seminar will explore the emotion of **shame** in the **context of Social Media usage** .

Shame is a regular day-to-day emotion, one of the so-called self-conscious emotions. Shame usually arises when we face a situation that signals that we don't meet specific social standards or our own goals and are afraid of being criticized. Shame is a regular human emotion and can have adaptive qualities. However, in most cases, it is an **unpleasant emotion** . It can lead to **severe mental-health-related consequences** if experienced chronically.

Social Media platforms have become modern-day arenas to **showcase our successes and most precious moments** . However, constant exposure to this "highlight reel" can also be a **severe downside** of Social Media usage. For a long, research has shown that this "positivity overload" can trigger harmful emotions which can seriously compromise users' well-being. Though underresearched so far, feelings of shame likely also play a role in users' emotional experiences on the platforms. Constantly looking at the seemingly perfect lives of others can bring our shortcomings to the fore, reinforcing the feeling that we will never achieve these hyper-perfect versions of life, thus providing the basis for shame. *What are the drivers of this emotion? In which situations does it arise? And what consequences does it have for users' behaviors and experiences on the platforms and beyond?* This is exactly where this seminar comes in.

Students will work in groups and **apply different methods** to tackle these research questions. The following methods are planned (one per group):

- Qualitative Methods (e.g., Interviews, Focus Groups)
- Systematic Literature Reviews
- Small-scale quantitative methods (e.g., design your own survey, analysis using e.g., multiple linear regression)

Important:

Please note that this seminar is **dedicated solely to the research question described above** , and we welcome students who bring a general interest in the topic. No other topics other than the above will be offered and supervised during the seminar. Please take this into account when choosing this seminar.

Leistungsnachweis

Project work will be conducted in groups of 2 or 3. You will conduct research on a specified research question using a method of choice (systematic literature reviews, qualitative or quantitative research methods). During your work, you will be guided and supervised by the instructors, offering periodic supervision slots throughout the semester. The course is meant for students to apply their methodological and theoretical knowledge gained in previous classes to a practical research project.

Graded tasks during the course are:

1. Mid-Term Presentation
2. Final Presentation
3. Written Research Report

Attendance during the first session (April 21) and the presentation sessions (June 2 and Juli 28) is mandatory.

Bemerkung

For the course, we will use Moodle for central communication, distribution of tasks and literature, and the submission of final reports.

The Moodle details will be added to PULS after the seminar's first session.

Zielgruppe

This course is meant for students with **at least some experience and skills in handling academic literature and mastering scientific research methods**. We offer students the unique chance to apply their previously learned skills in conducting research themselves, presenting, and summarising the findings in the form of a seminar paper.

Therefore, students are invited who have either already attended a seminar to gain first research experience or other seminars or lectures of the Chair of Information Systems, especially Social Media and Data Science (e.g., Social Media Research, Advanced Research Methods).

Leistungen in Bezug auf das Modul

SL 557212 - Seminar (unbenotet)

INF-DSAM6A - Advanced Applied Data Science A **100426 VU - Irrigation and Agricultural Hydrology**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	Do	12:15 - 13:45	wöch.	2.05.1.08	20.04.2023	Dr. Katya Dimitrova Petrova

Kommentar

The lecture/exercise is part of the module *"GEE-M-V04: Dryland Hydrology"*.

The module description is available here: <https://www.uni-potsdam.de/de/umwelt/clews-masters-program/clews-courses>

Leistungen in Bezug auf das Modul

SL 557222 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

 100444 VS - Dryland Water Resources

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VS	Do	10:15 - 11:45	wöch.	2.05.1.08	20.04.2023	Prof. Dr.-Ing. Axel Bronstert, Prof. Dr. Sascha Oswald

Kommentar

The lecture/seminar is part of the module *"GEE-M-V04: Dryland Hydrology"*.

The module description is available here: <https://www.uni-potsdam.de/de/umwelt/clews-masters-program/clews-courses> and also in German here: https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&moduleCall=modulansicht&publishConfFile=modulverwaltung&publishSubDir=up/modulbearbeiter&modul.modul_id=1081&menuid=&topitem=Modulbeschreibung

Bemerkung

There is a maximum number of 20 participants.

Leistungen in Bezug auf das Modul

SL 557221 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

INF-DSAM6B - Advanced Applied Data Science B **100426 VU - Irrigation and Agricultural Hydrology**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	Do	12:15 - 13:45	wöch.	2.05.1.08	20.04.2023	Dr. Katya Dimitrova Petrova

Kommentar

The lecture/exercise is part of the module "GEE-M-V04: Dryland Hydrology".

The module description is available here: <https://www.uni-potsdam.de/de/umwelt/clews-masters-program/clews-courses>

Leistungen in Bezug auf das Modul

SL 557231 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

101509 VU - Theoretical Systems Biology

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	U	Mo	14:15 - 15:45	wöch.	2.09.0.12	17.04.2023	Cédric Moris
1	V	Mi	08:15 - 09:45	wöch.	2.10.0.26	19.04.2023	Dr. Niklas Hartung

Kommentar

NOTE: Instead of the first lecture (April 19th), you will find online material on the Moodle course page (--> [LINK](#)). Also, there is no exercise class in the first week (April 17th). Starting with the 2nd semester week (April 24th), all lectures/exercises will take place on-site.

Leistungen in Bezug auf das Modul

SL 557231 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

101756 VU - Natural Language Processing

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Gerard de Melo

Kommentar

Angaben zum Lehrinhalt in der Beschreibung aufrufbar unter <https://hpi.de/studium/lehrveranstaltungen.html>

Voraussetzung

Voraussetzungen werden in den Lehrinhaltsbeschreibungen unter <https://hpi.de/studium/lehrveranstaltungen.html> benannt

Bemerkung

Unter <https://hpi.de/studium/lehrveranstaltungen.html> sind folgende Angaben aufrufbar:

- Raum und Zeit
- Lehrinhalt und Leistungserfassung
- Teilnehmerbegrenzung

Leistungen in Bezug auf das Modul

SL 557231 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

101807 VU - Competitive Programming with Deep Learning

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Tobias Friedrich

Kommentar

Angaben zum Lehrinhalt in der Beschreibung aufrufbar unter <https://hpi.de/studium/lehrveranstaltungen.html>

Voraussetzung

Voraussetzungen werden in den Lehrinhaltsbeschreibungen unter <https://hpi.de/studium/lehrveranstaltungen.html> benannt.

Bemerkung

Unter <https://hpi.de/studium/lehveranstaltungen.html> sind folgende Angaben aufrufbar:

- Raum und Zeit
- Lehrinhalt und Leistungserfassung
- Teilnehmerbegrenzung

Leistungen in Bezug auf das Modul

SL 557231 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

101938 S - Visual Data Exploration and Story Telling - the good, the bad, and the ugly							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	S	N.N.	N.N.	wöch.	N.N.	N.N.	Prof. Dr. Bernhard Renard, Dr. Christoph Schlaffner, Simon Witzke

Links:

Weitere Informationen https://hpi.de/en/studies/during-your-studies/courses/data-engineering-ma/course/sose-23-3790-visual-data-exploration-and-story-telling_-_the-good-the-bad-and-the-ugly.html

Leistungen in Bezug auf das Modul

SL 557231 - Vorlesung / Seminar / Übung / Projekt (unbenotet)

INF-DSAM7 - Computer Engineering for Big Data

101323 VU - Hardware-Architekturen für KI-Anwendungen							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	V	Fr	10:00 - 12:00	wöch.	2.70.0.08	21.04.2023	Prof. Dr. Milos Krstic
1	U	Fr	12:00 - 14:00	wöch.	2.70.0.05	21.04.2023	Junchao Chen, Prof. Dr. Milos Krstic, Anselm Breitenreiter

Kommentar

Introductory lecture is on Friday 21.4. at 10:15.

Due to strike only this lecture will be organized online over Zoom.

Here are the access information:

Prof. Dr. Milos Krstic lädt Sie zu einem geplanten Zoom-Meeting ein.

Thema: Hardware Architectures for AI - Introductory lecture
Uhrzeit: 21.Apr. 2023 10:15 AM Amsterdam, Berlin, Rom, Stockholm, Wien

Zoom-Meeting beitreten
<https://uni-potsdam.zoom.us/j/63829535383>

Meeting-ID: 638 2953 5383
Kenncode: 71698621
Schnelleinwahl mobil
+496971049922,,63829535383#,,,,*71698621# Deutschland
+496950502596,,63829535383#,,,,*71698621# Deutschland

Einwahl nach aktuellem Standort
+49 69 7104 9922 Deutschland
+49 695 050 2596 Deutschland
Meeting-ID: 638 2953 5383
Kenncode: 71698621
Ortseinwahl suchen: <https://uni-potsdam.zoom.us/u/cdTGzkAlor>

Über SIP beitreten
63829535383@fr.zmew.us

Über H.323 beitreten
213.19.144.110 (Amsterdam
Niederlande)
213.244.140.110 (Deutschland)
Kenncode: 71698621
Meeting-ID: 638 2953 5383

Leistungsnachweis

Mündliche Prüfung.

Lerninhalte

In this course the focus will be on the specifics of hardware design and architectures for AI applications. After the overview of the standard design techniques and common computing architectures, the additional requirements of AI will be discussed. Based on this, the specific architectures and design methods increasing the efficiency of the computation will be discussed. Finally, this course will include also an introduction to the emerging and novel architectures and technologies that could have significant impact in the future.

Here is the detailed list of topics:

- Introduction in VLSI design and computer architectures
- State of the art processor architecture, Example RISC-V
- Limitations of classical architectures for AI applications
- Accelerators architectures: GPUs, MAC arrays
- Neuromorphic Architectures (TrueNorth, Loihi, Spinnaker), asynchronous design
- Emerging architectures: In-Memory-Computing (example RRAM)

Leistungen in Bezug auf das Modul

PNL 557242 - Übung oder Projekt (unbenotet)

INF-DSAM9 - Computational Foundations of Data Science **101345 DF - Multi-agent path finding**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	VU	Mo	12:00 - 14:00	wöch.	2.70.0.08	17.04.2023	Prof. Dr. Torsten Schaub, Etienne Tignon

Kommentar

Multi-agent path finding is the name of the problem of planning the path of a multitude of agents. The goal is to avoid collisions between the agents while optimizing the paths. In this lecture, the students will read relevant papers on the subject, write summaries about them and participate in a practical project.

Knowledge about ASP is mandatory for this course. Taking this course and the " *Answer Set Solving in Practice* " course in the same semester is discouraged.

There is the link to the moodle page.

The password is mapf29138mcp

Leistungen in Bezug auf das Modul

PNL 557251 - Vorlesung und Übung (unbenotet)

INF-DSAM10 - Research Data Management, Law, and Ethics

Für dieses Modul werden aktuell keine Lehrveranstaltungen angeboten

INF-DSAM11 - Applied Data Science Internship **101368 PJ - Intelligent Logistics Technology**

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	Mo	14:00 - 16:00	wöch.	2.70.0.08	17.04.2023	Prof. Dr. Torsten Schaub, Balázs Amadé Nemes, Javier Romero Davila, Francois Laferriere, Etienne Tignon

Kommentar

In this project, student teams build software systems addressing problems in warehouse logistics using problem solvers for answer set programming

Voraussetzung

Knowledge in answer set programming (and python).

Leistungsnachweis

Implementation, evaluation, presentation, and documentation.

Bemerkung

Offline communication is conducted primarily via the associated moodle page.

Announcements are also made through the email list of registered students in puls.

Questions can be address to krprojects@lists.cs.uni-potsdam.de .

Lerninhalte							
On individual basis.							
Kurzkomentar							
Joint kick-off event for all projects of the professorship Knowledge Processing and Information Systems as announced in course catalog of the department and the associated moodle page. moodle							
Zielgruppe							
Students interested in applying AI-techniques in logistics							
Leistungen in Bezug auf das Modul							
SL	557271 - Praktikum (mind. 8 Wochen) (unbenotet)						

101369 PJ - Solver Construction							
Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	Mo	14:00 - 16:00	wöch.	2.70.0.08	17.04.2023	Balázs Amadé Nemes, Javier Romero Davila, Francois Laferriere, Prof. Dr. Torsten Schaub, Etienne Tignon

Kommentar							
In this project, student teams build their own problem solvers (or components thereof) based on modern constraint technology. Foremost this concerns ASP solving technology but equally well that of SAT, PB and related areas.							
Voraussetzung							
Good knowledge in ASP and/or SAT technology and python and/or C++							
Literatur							
- Answer Set Solving in Practice by Martin Gebser, Roland Kaminski, Benjamin Kaufmann, and Torsten Schaub - Synthesis Lectures on Artificial Intelligence and Machine Learning, Morgan and Claypool							
Leistungsnachweis							
Implementation, evaluation, presentation, and documentation							
Bemerkung							
Offline communication is conducted primarily via the associated moodle page. Announcements are also made through the email list of registered students in puls. Questions can be address to krprojects@lists.cs.uni-potsdam.de .							

Lerninhalte							
On individual basis							
Kurzkomentar							
Joint kick-off event for all projects of the professorship Knowledge Processing and Information Systems as announced in course catalog of the department and the associated moodle page moodle							
Zielgruppe							
Students interested in high-end programming							

Leistungen in Bezug auf das Modul

SL 557271 - Praktikum (mind. 8 Wochen) (unbenotet)

101370 PJ - Declarative Problem Solving

Gruppe	Art	Tag	Zeit	Rhythmus	Veranstaltungsort	1.Termin	Lehrkraft
1	PJ	Mo	14:00 - 16:00	wöch.	2.70.0.08	17.04.2023	Francois Laferriere, Javier Romero Davila, Prof. Dr. Torsten Schaub, Balázs Amadé Nemes

Kommentar

In this project, student teams build software systems whose core consists of problem solvers for combinatorial (optimization) problems, like answer set programming

Voraussetzung

Good knowledge in ASP and/or SAT.

Leistungsnachweis

Implementation, evaluation, presentation, and documentation

Bemerkung

Offline communication is conducted primarily via the associated moodle page.

Announcements are also made through the email list of registered students in puls.

Questions can be address to krprojects@lists.cs.uni-potsdam.de. krprojects@lists.cs.uni-potsdam.de

Lerninhalte

On individual basis

Kurzkommentar

Joint kick-off event for all projects of the professorship Knowledge Processing and Information Systems as announced in course catalogue of the department and the associated moodle page

[moodle](#)

Zielgruppe

MSc students who want to deepen their practical knowledge in declarative modelling techniques and their application

Leistungen in Bezug auf das Modul

SL 557271 - Praktikum (mind. 8 Wochen) (unbenotet)

Glossar

Die folgenden Begriffserklärungen zu Prüfungsleistung, Prüfungsnebenleistung und Studienleistung gelten im Bezug auf Lehrveranstaltungen für alle Ordnungen, die seit dem WiSe 2013/14 in Kraft getreten sind.

Prüfungsleistung	Prüfungsleistungen sind benotete Leistungen innerhalb eines Moduls. Aus der Benotung der Prüfungsleistung(en) bildet sich die Modulnote, die in die Gesamtnote des Studiengangs eingeht. Handelt es sich um eine unbenotete Prüfungsleistung, so muss dieses ausdrücklich („unbenotet“) in der Modulbeschreibung der fachspezifischen Ordnung geregelt sein. Weitere Informationen, auch zu den Anmeldeöglichkeiten von Prüfungsleistungen, finden Sie unter anderem in der Kommentierung der BaMa-O
Prüfungsnebenleistung	Prüfungsnebenleistungen sind für den Abschluss eines Moduls relevante Leistungen, die – soweit sie vorgesehen sind – in der Modulbeschreibung der fachspezifischen Ordnung beschrieben sind. Prüfungsnebenleistungen sind immer unbenotet und werden lediglich mit "bestanden" bzw. "nicht bestanden" bewertet. Die Modulbeschreibung regelt, ob die Prüfungsnebenleistung eine Teilnahmevoraussetzung für eine Modulprüfung oder eine Abschlussvoraussetzung für ein ganzes Modul ist. Als Teilnahmevoraussetzung für eine Modulprüfung muss die Prüfungsnebenleistung erfolgreich vor der Anmeldung bzw. Teilnahme an der Modulprüfung erbracht worden sein. Auch für Erbringung einer Prüfungsnebenleistungen wird eine Anmeldung vorausgesetzt. Diese fällt immer mit der Belegung der Lehrveranstaltung zusammen, da Prüfungsnebenleistung im Rahmen einer Lehrveranstaltungen absolviert werden. Sieht also Ihre fachspezifische Ordnung Prüfungsnebenleistungen bei Lehrveranstaltungen vor, sind diese Lehrveranstaltungen zwingend zu belegen, um die Prüfungsnebenleistung absolvieren zu können.
Studienleistung	Als Studienleistung werden Leistungen bezeichnet, die weder Prüfungsleistungen noch Prüfungsnebenleistungen sind.



Quelle: Karla Pirze

Impressum

Herausgeber

Am Neuen Palais 10
14469 Potsdam

Telefon: +49 331/977-0

Fax: +49 331/972163

E-mail: presse@uni-potsdam.de

Internet: www.uni-potsdam.de

Umsatzsteueridentifikationsnummer

DE138408327

Layout und Gestaltung

jung-design.net

Druck

12.9.2023

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Ministerium für Wissenschaft, Forschung und Kultur des Landes Brandenburg
Dortustr. 36
14467 Potsdam

Inhaltliche Verantwortlichkeit i. S. v. § 5 TMG und § 55 Abs. 2 RStV

Referat für Presse- und Öffentlichkeitsarbeit
Referatsleiterin und Sprecherin der Universität
Silke Engel
Am Neuen Palais 10
14469 Potsdam
Telefon: +49 331/977-1474
Fax: +49 331/977-1130
E-mail: presse@uni-potsdam.de

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