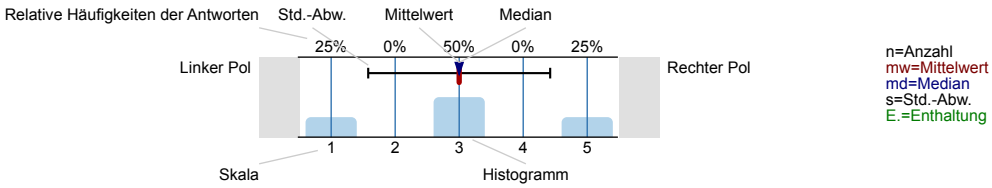
Matthias Carl Laupichler

PI_anwesend ()
Erfasste Fragebögen = 4

Auswertungsteil der geschlossenen Fragen

Legende

Fragetext



1. Questions about the course (1)

1.1) The difficulty of the lecture part of the course (i.e., theoretical input by instructors) is…

n=4

Far too low	0%
A little too low	0%
Just right	75%
A little too high	25%
Far too high	0%

1.2) The difficulty of the exercise part of the course (e.g. programming exercises in python) is…

n=4

Far too low	0%
A little too low	0%
Just right	0%
A little too high	100%
Far too high	0%

1.3) The pace of the course is…

n=4

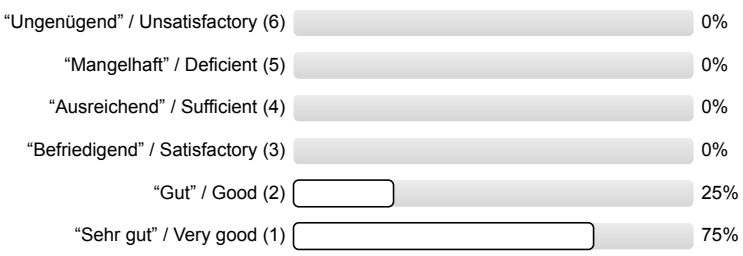
Far too slow	0%
A little too slow	0%
Just right	75%
A little too fast	25%
Way too fast	0%

1.4) Overall, I give the course the following school grade:

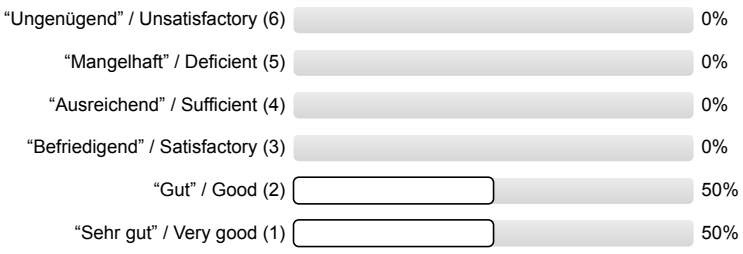
n=4

“Ungenügend” / Unsatisfactory (6)	0%
“Mangelhaft” / Deficient (5)	0%
“Ausreichend” / Sufficient (4)	0%
“Befriedigend” / Satisfactory (3)	0%
“Gut” / Good (2)	50%
“Sehr gut” / Very good (1)	50%

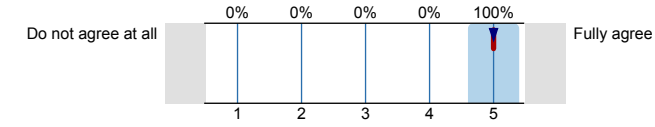
1.5) Overall, I give the lecture part of the course (i.e., theoretical input by instructors) the following school grade:



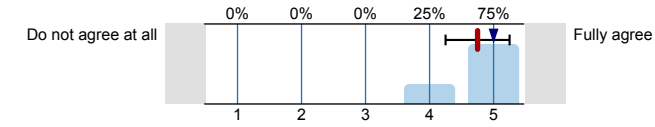
1.6) Overall, I give the exercise part of the course (e.g., programming exercises in python) the following school grade:



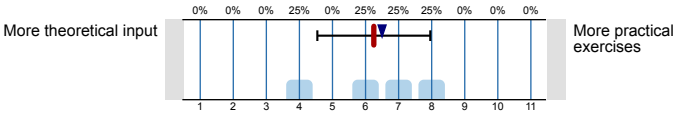
1.7) The course is useful for supervising my research group.



1.8) The amount of examples in the course was appropriate.

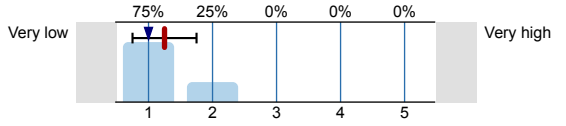


1.9) Would you have preferred a greater proportion of theoretical input or a greater proportion of practical exercises? If you think that the ratio of theory and practice was good, please check a box in the middle of the scale.

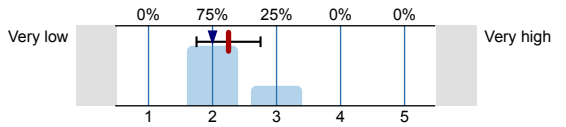


2. Evaluation of Learning Objectives

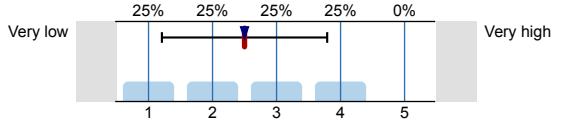
2.1) **Python programming (in general):**
My skills in this area *before* starting the course were...



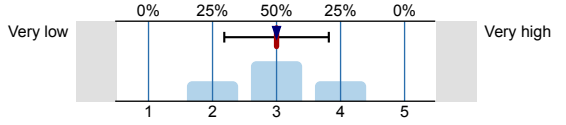
2.2) **Python programming (in general):**
My skills in this area are *now*...



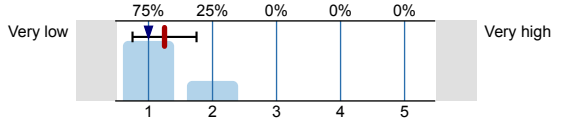
2.3) **I can use the Linux terminal/console.**
My skills in this area *before* starting the course were...



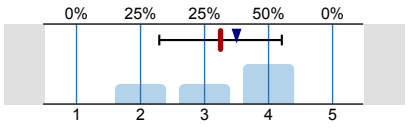
2.4) **I can use the Linux terminal/console.**
My skills in this area are *now*...



2.5) **I can explain gradient descent techniques.**
My skills in this area *before* starting the course were...

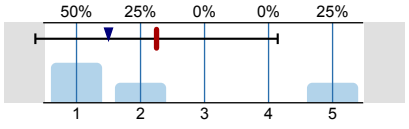


2.6) **I can explain gradient descent techniques.**
My skills in this area are *now*...



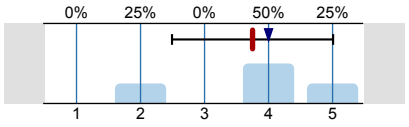
n=4
mw=3,3
md=3,5
s=1

2.7) **I can calculate descriptive statistics like mean, variance, and distribution in Python.**
My skills in this area *before* starting the course were...



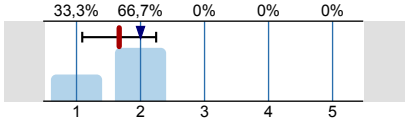
n=4
mw=2,3
md=1,5
s=1,9

2.8) **I can calculate descriptive statistics like mean, variance, and distribution in Python.**
My skills in this area are *now*...



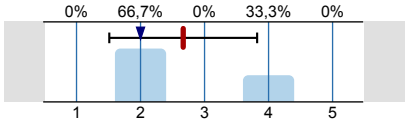
n=4
mw=3,8
md=4
s=1,3

2.9) **I can explain the concept of Eigenvalues and their importance for PCA.**
My skills in this area *before* starting the course were...



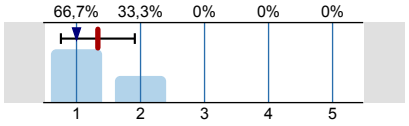
n=3
mw=1,7
md=2
s=0,6
E.=1

2.10) **I can explain the concept of Eigenvalues and their importance for PCA.**
My skills in this area are *now*...



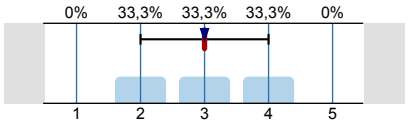
n=3
mw=2,7
md=2
s=1,2
E.=1

2.11) **I can demonstrate how k-nearest neighbors algorithms work in Python.**
My skills in this area *before* starting the course were...



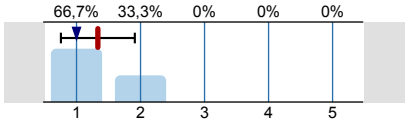
n=3
mw=1,3
md=1
s=0,6
E.=1

2.12) **I can demonstrate how k-nearest neighbors algorithms work in Python.**
My skills in this area are *now*...



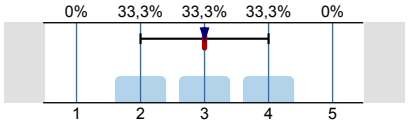
n=3
mw=3
md=3
s=1
E.=1

2.13) **I can demonstrate how support vector machine algorithms work in Python.**
My skills in this area *before* starting the course were...



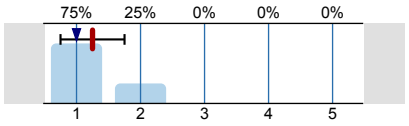
n=3
mw=1,3
md=1
s=0,6
E.=1

2.14) **I can demonstrate how support vector machine algorithms work in Python.**
My skills in this area are *now*...



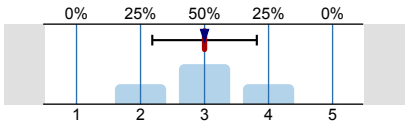
n=3
mw=3
md=3
s=1
E.=1

2.15) **I can demonstrate how decision tree and random forest algorithms work in Python.**
My skills in this area *before* starting the course were...



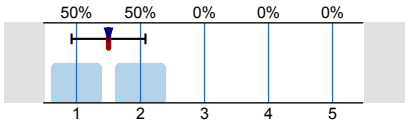
n=4
mw=1,3
md=1
s=0,5

2.16) **I can demonstrate how decision tree and random forest algorithms work in Python.**
My skills in this area are *now*...



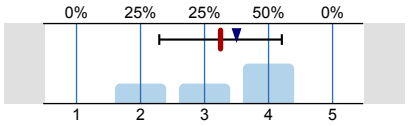
n=4
mw=3
md=3
s=0,8

2.17) **I can demonstrate how k-means algorithms work in Python.**
My skills in this area *before* starting the course were...



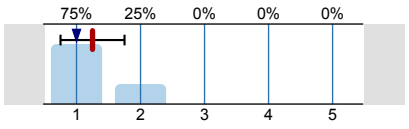
n=4
mw=1,5
md=1,5
s=0,6

2.18) **I can demonstrate how k-means algorithms work in Python.**
My skills in this area are *now*...



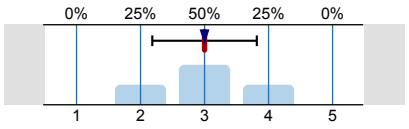
n=4
mw=3,3
md=3,5
s=1

2.19) **I can explain the concept of Gaussian mixture models.**
My skills in this area *before* starting the course were...



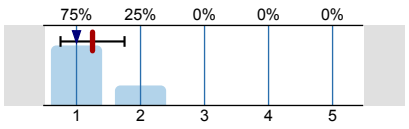
n=4
mw=1,3
md=1
s=0,5

2.20) **I can explain the concept of Gaussian mixture models.**
My skills in this area are *now*...



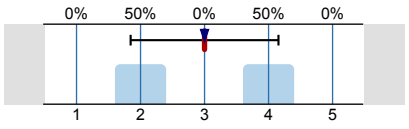
n=4
mw=3
md=3
s=0,8

2.21) **I can use PCA for dimensionality reduction in Python.**
My skills in this area *before* starting the course were...



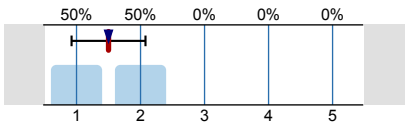
n=4
mw=1,3
md=1
s=0,5

2.22) **I can use PCA for dimensionality reduction in Python.**
My skills in this area are *now*...



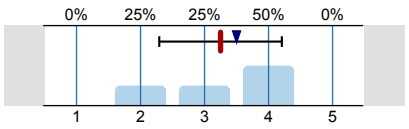
n=4
mw=3
md=3
s=1,2

2.23) **I can explain the concepts of feedforward neural networks and convolutional neural networks.**
My skills in this area *before* starting the course were...



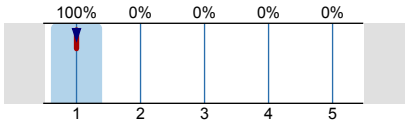
n=4
mw=1,5
md=1,5
s=0,6

2.24) **I can explain the concept of feedforward neural networks and convolutional neural networks.**
My skills in this area are *now*...



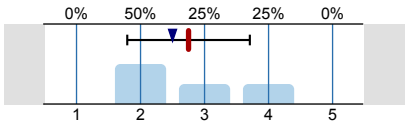
n=4
mw=3,3
md=3,5
s=1

2.25) **I can demonstrate the training process of simple neural networks in Python.**
My skills in this area *before* starting the course were...



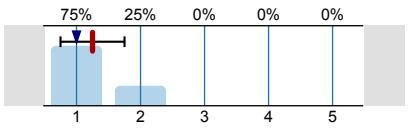
n=4
mw=1
md=1
s=0

2.26) **I can demonstrate the training process of simple neural networks in Python.**
My skills in this area are *now*...



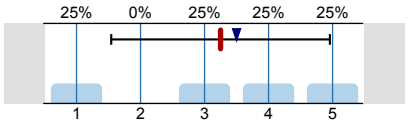
n=4
mw=2,8
md=2,5
s=1

2.27) **I can explain the link between convolutional neural networks and cross correlation.**
My skills in this area *before* starting the course were...



n=4
mw=1,3
md=1
s=0,5

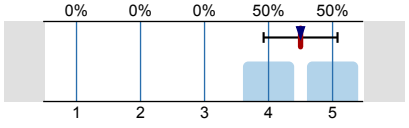
2.28) **I can explain the link between convolutional neural networks and cross correlation.**
My skills in this area are *now*...



n=4
mw=3,3
md=3,5
s=1,7

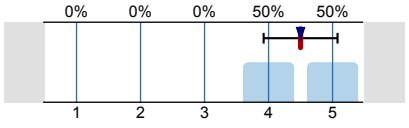
3. Questions about the course (2)

3.1) Was GitHub a helpful tool for conducting the course?



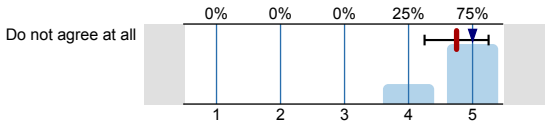
n=4
mw=4,5
md=4,5
s=0,6

3.2) The course follows a clear structure.



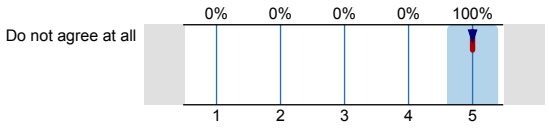
n=4
mw=4,5
md=4,5
s=0,6

3.3) The way the course is designed adds to the understanding of the material.



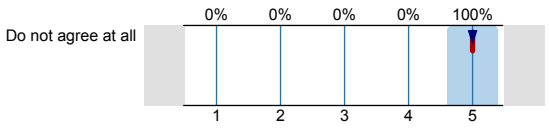
n=4
mw=4,8
md=5
s=0,5

3.4) The course has a good mix of knowledge transfer, interactive elements and discussion.



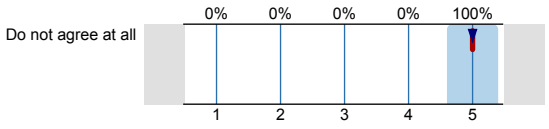
n=4
mw=5
md=5
s=0

3.5) The instructors are responsive to questions and suggestions.



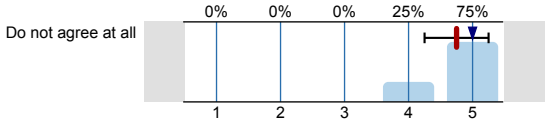
n=4
mw=5
md=5
s=0

3.6) The instructors clarify the usability and usefulness of the course content.



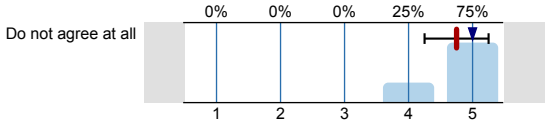
n=4
mw=5
md=5
s=0

3.7) The instructors use good teaching materials (e.g., slides, presentations, bibliography, script) to support the learning process.



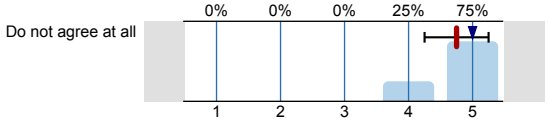
n=4
mw=4,8
md=5
s=0,5

3.8) The instructors have good time management skills.



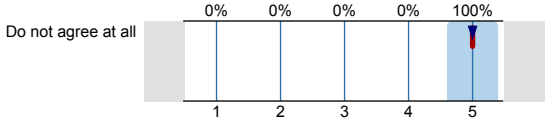
n=4
mw=4,8
md=5
s=0,5

3.9) The instructors express themselves clearly and comprehensively.



n=4
mw=4,8
md=5
s=0,5

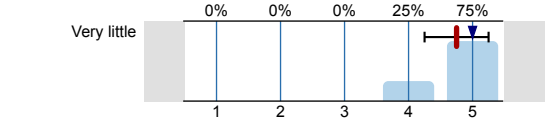
3.10) The instructors encourage active participation in the course.



n=4
mw=5
md=5
s=0

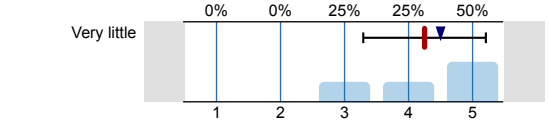
4. Questions about the course (4)

4.1) How much did you learn in this course?



n=4
mw=4,8
md=5
s=0,5

4.2) How interested were you in the topic ***before*** the course began?



n=4
mw=4,3
md=4,5
s=1

Profillinie

Teilbereich: Institut für Medizindidaktik
Name der/des Lehrenden: Matthias Carl Laupichler
Titel der Lehrveranstaltung: (Name der Umfrage) PI_anwesend

Verwendete Werte in der Profillinie: Mittelwert

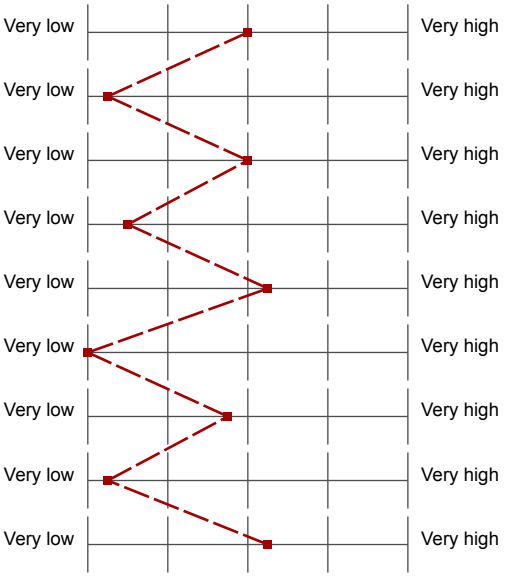
1. Questions about the course (1)

1.7)	The course is useful for supervising my research group.	Do not agree at all	Fully agree	n=3	mw=5,0	md=5,0	s=0,0
1.8)	The amount of examples in the course was appropriate.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5,0	s=0,5
1.9)	Would you have preferred a greater proportion of theoretical input or a greater proportion of practical exercises? If you think that the ratio of	More theoretical input	More practical exercises	n=4	mw=6,3	md=6,5	s=1,7

2. Evaluation of Learning Objectives

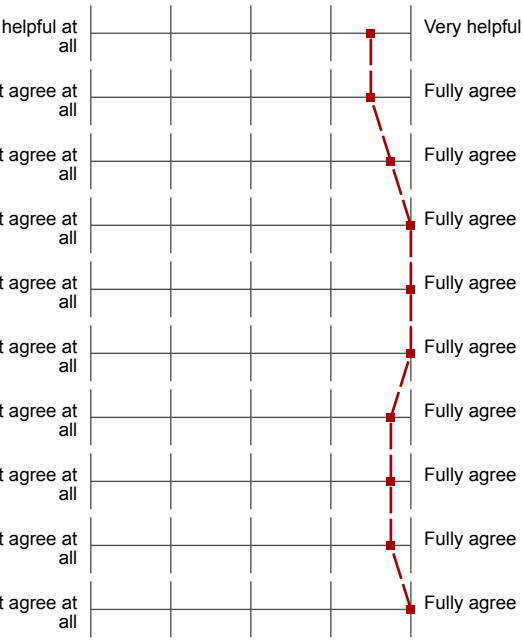
2.1)	**Python programming (in general):** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5
2.2)	**Python programming (in general):** My skills in this area are *now*...	Very low	Very high	n=4	mw=2,3	md=2,0	s=0,5
2.3)	**I can use the Linux terminal/console.** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=2,5	md=2,5	s=1,3
2.4)	**I can use the Linux terminal/console.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,0	md=3,0	s=0,8
2.5)	**I can explain gradient descent techniques.** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5
2.6)	**I can explain gradient descent techniques.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3,5	s=1,0
2.7)	**I can calculate descriptive statistics like mean, variance, and distribution in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=2,3	md=1,5	s=1,9
2.8)	**I can calculate descriptive statistics like mean, variance, and distribution in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,8	md=4,0	s=1,3
2.9)	**I can explain the concept of Eigenvalues and their importance for PCA.** My skills in this area *before* starting the course	Very low	Very high	n=3	mw=1,7	md=2,0	s=0,6
2.10)	**I can explain the concept of Eigenvalues and their importance for PCA.** My skills in this area are *now*...	Very low	Very high	n=3	mw=2,7	md=2,0	s=1,2
2.11)	**I can demonstrate how k-nearest neighbors algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=3	mw=1,3	md=1,0	s=0,6
2.12)	**I can demonstrate how k-nearest neighbors algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=3	mw=3,0	md=3,0	s=1,0
2.13)	**I can demonstrate how support vector machine algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=3	mw=1,3	md=1,0	s=0,6
2.14)	**I can demonstrate how support vector machine algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=3	mw=3,0	md=3,0	s=1,0
2.15)	**I can demonstrate how decision tree and random forest algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5
2.16)	**I can demonstrate how decision tree and random forest algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,0	md=3,0	s=0,8
2.17)	**I can demonstrate how k-means algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,5	md=1,5	s=0,6
2.18)	**I can demonstrate how k-means algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3,5	s=1,0
2.19)	**I can explain the concept of Gaussian mixture models.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5

2.20)	**I can explain the concept of Gaussian mixture models.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,0	md=3,0	s=0,8
2.21)	**I can use PCA for dimensionality reduction in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5
2.22)	**I can use PCA for dimensionality reduction in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,0	md=3,0	s=1,2
2.23)	**I can explain the concepts of feedforward neural networks and convolutional neural networks.**	Very low	Very high	n=4	mw=1,5	md=1,5	s=0,6
2.24)	**I can explain the concept of feedforward neural networks and convolutional neural networks.**	Very low	Very high	n=4	mw=3,3	md=3,5	s=1,0
2.25)	**I can demonstrate the training process of simple neural networks in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,0	md=1,0	s=0,0
2.26)	**I can demonstrate the training process of simple neural networks in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=2,8	md=2,5	s=1,0
2.27)	**I can explain the link between convolutional neural networks and cross correlation.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1,0	s=0,5
2.28)	**I can explain the link between convolutional neural networks and cross correlation.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3,5	s=1,7



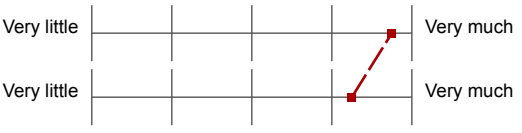
3. Questions about the course (2)

3.1)	Was GitHub a helpful tool for conducting the course?	Not helpful at all	Very helpful	n=4	mw=4,5	md=4,5	s=0,6
3.2)	The course follows a clear structure.	Do not agree at all	Fully agree	n=4	mw=4,5	md=4,5	s=0,6
3.3)	The way the course is designed adds to the understanding of the material.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5,0	s=0,5
3.4)	The course has a good mix of knowledge transfer, interactive elements and discussion.	Do not agree at all	Fully agree	n=4	mw=5,0	md=5,0	s=0,0
3.5)	The instructors are responsive to questions and suggestions.	Do not agree at all	Fully agree	n=4	mw=5,0	md=5,0	s=0,0
3.6)	The instructors clarify the usability and usefulness of the course content.	Do not agree at all	Fully agree	n=4	mw=5,0	md=5,0	s=0,0
3.7)	The instructors use good teaching materials (e. g., slides, presentations, bibliography, script) to support the learning process.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5,0	s=0,5
3.8)	The instructors have good time management skills.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5,0	s=0,5
3.9)	The instructors express themselves clearly and comprehensively.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5,0	s=0,5
3.10)	The instructors encourage active participation in the course.	Do not agree at all	Fully agree	n=4	mw=5,0	md=5,0	s=0,0



4. Questions about the course (4)

4.1)	How much did you learn in this course?	Very little	Very much	n=4	mw=4,8	md=5,0	s=0,5
4.2)	How interested were you in the topic ***before*** the course began?	Very little	Very much	n=4	mw=4,3	md=4,5	s=1,0



Auswertungsteil der offenen Fragen

4. Questions about the course (4)

4.3) What did you like most about the course?

- Die praktischen Übungen und die großartige Unterstützung durch Elena, Moritz und die Tutoren.
- Extremely nice and knowledgeable lecturers and tutors! Nice atmosphere, interesting colleagues... It was awesome!
- mixture of lectures and practical parts

4.4) What could be improved about this course?

- Das Niveau der Programmierübungen war sehr hoch. Nichtsdestoweniger habe ich sehr viel aus den praktischen Übungen mitgenommen und finde deren Niveau passend zu den theoretischen Inhalten des Kurses. Die sehr gute tutorielle Betreuung hat in diesem Zusammenhang sehr geholfen.
  Neben dem geplanten Kurs zu den fortgeschrittenen Methoden des maschinenellen Lernens, wäre eventuell noch ein Kurs sinnvoll, der in die Grundlagen der Programmierung in Python einführt (Funktionsweise und Erstellen von Funktionen, Klassen, main-statement, etc.).
- For us mere humans way more specific help is needed in the excercise parts, with a lot more comments on the code and (at least at the first few excercises) specific steps or snippets of code to use.
- It's really hard to improve this amazing course. The staff/student ratio is close to 1, which is incredible and fantastic to learn as quickly as possible!
  I should have learned more basic python skills before the course and done more of the exercises at home between course days, then I would have benefitted more. So perhaps this could be recommended to future participants even more.

5. Participant statistics

5.1) What is your main field of research?

- Neurobiology
- Neuroscience
- Neurovascular
- Wirtschaftsgeschichte