

Virginia Tech
Spring 2017 VT Student Perceptions of Teaching (SPOT)

Course: ECE_6554_13153_201701: Advanced Computer Vision-ECE_6554_13153_201701
Instructor: Jia-Bin Huang *

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1A - The instructor was well prepared.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%		5.25	5.19	5.31	Instructor	College	Department	
Disagree	(2)	0	0%								
Somewhat disagree	(3)	1	8.33%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	4	33.33%								
Strongly agree	(6)	6	50%								
				0	25	50	75	100			
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.25	0.97	5.50	17,558	5.19	1.09	5.00	3,177	5.31	1.01	6.00

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1B - The instructor presented the subject matter clearly.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%		5.17	4.92	5.03	Instructor	College	Department	
Disagree	(2)	1	8.33%								
Somewhat disagree	(3)	0	0%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	4	33.33%								
Strongly agree	(6)	6	50%								
				0	25	50	75	100			
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.17	1.19	5.50	17,478	4.92	1.29	5.00	3,163	5.03	1.22	5.00

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1C - The instructor provided feedback intended to improve my course performance.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	1	8.33%		4.75	4.84	4.87	Instructor	College	Department	
Disagree	(2)	0	0%								
Somewhat disagree	(3)	1	8.33%								
Somewhat agree	(4)	0	0%								
Agree	(5)	7	58.33%								
Strongly agree	(6)	3	25%								
				0	25	50	75	100			
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	4.75	1.42	5.00	17,471	4.84	1.33	5.00	3,160	4.87	1.32	5.00

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Instructor: Jia-Bin Huang *

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1D - The instructor fostered an atmosphere of mutual respect.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%			5.08	5.27	5.35			
Disagree	(2)	0	0%								
Somewhat disagree	(3)	0	0%								
Somewhat agree	(4)	3	25%								
Agree	(5)	5	41.67%								
Strongly agree	(6)	4	33.33%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.08	0.79	5.00	17,455	5.27	1.08	6.00	3,156	5.35	1.03	6.00

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1E - Overall, the instructor's teaching was effective.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%			5.00	4.89	4.99			
Disagree	(2)	1	8.33%								
Somewhat disagree	(3)	0	0%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	6	50%								
Strongly agree	(6)	4	33.33%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.00	1.13	5.00	17,371	4.89	1.34	5.00	3,139	4.99	1.28	5.00

2 - 2A - What did the instructor do that most helped in your learning?

Jia-Bin Huang

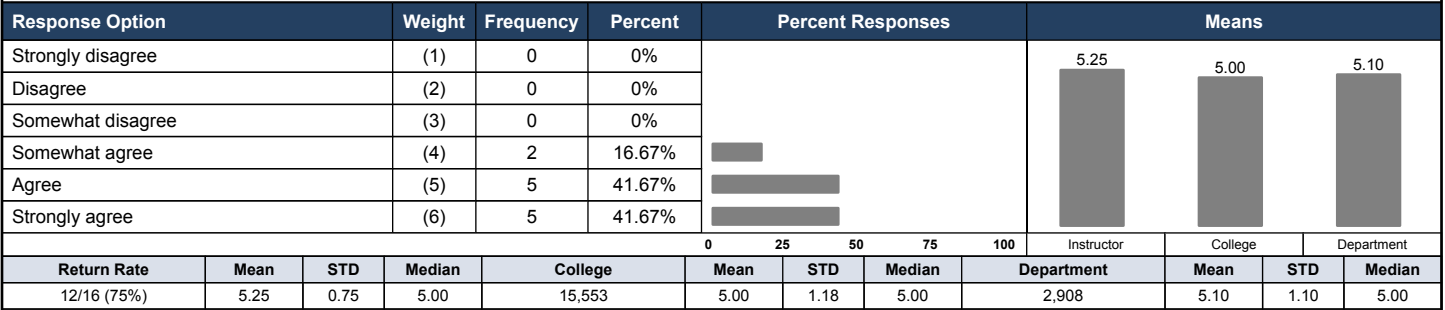
- By exposing us to many topics
- Reading and discussing papers introduced me to the ideas and approaches which are state-of-the art now. Instructor provided background material wherever necessary.
- About various implementations and usage of Advanced CV concepts and finer details about model training
- Interactive Classroom Sessions
- He provided large quantity of learning materials, and picked most representative ones to explain the techniques. He also held office hours for us to discuss with him.
- I think in this course Dr. Huang really walked me into the deep learning game, which would hopefully be my future research interest and agree to my background.
- The instructor has a very strong background in computer vision, and he kindly helps us with our project, and explain daily problem while reading the paper.
- To encourage us involving in course project as earlier as we can, and help us prepare by conducting small experiments on using CNN from others' papers.
- Guided me in the project very well. He was always prompt in replying to my doubts through mail and the office hours were also very helpful.
- He always had time for our doubts and was ready to spare time. He really helped with presentation and asked the right questions that really helped to increase the grasp on the subject.

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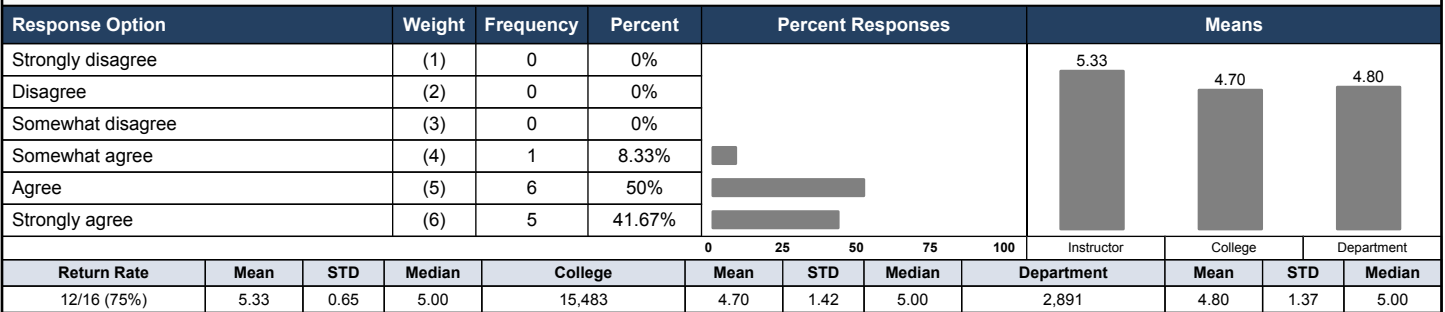
3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3A - I have a deeper understanding of the subject matter as a result of this course.



3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3B - My interest in the subject matter was stimulated by this course.



4 - 4A - What could you have done to be a better learner?

- Spend more time reading extra papers to understand every topic that was presented. I believe you have to spend more than 20 hours a week to fully understand everything in this area if you have not done anything prior.
- Implementing some of the easier ideas would gone a long way in understanding the papers.
- Taken mor enotes
- I read many papers during the course. Because we need to write a review for each paper, I have to force myself to think deeper, and to discover the strength, weakness, and the potential improvement of the paper.
- Get better prepared when learning new concepts. This course required a lot of related background knowledge.
- Learn efficiently and interactively in those basic ideas in CNN, since before I take this class, I have no idea on how CNN works, nor do I know the basic terms in CNN.
- Give more time to the reading material.
- I could have given more time to research papers.

5 - 5A - Please add any additional comments regarding the course and/or instructor here:

Jia-Bin Huang

- I believe that there were to many topics. Also it was difficult because the instructor expected us to have a deep understanding of every topic from reading very few papers.
- The papers covered during the course were great. Assignments (implementing from scratch the paper and reproducing the results from/ smaller assignments with tensorflow) would have helped during project implementation phase. The timeline for the project was late starting from March, could have been shifted to early February.
- Maybe we can slightly reduce the number of papers for students to read, and spend more time on each topic. This may help students better understand what they have learnt.
- I would suggest this course be re-arranged once a week and we will not be bothered with the review session nor rushed in class, together with a better understanding of a specific topic. For the project, I really believe we should have more members in one team. Modifying a network is risky because it takes long time and the result is uncertain. With more team members, we can be more confident in doing such work.
- The professor is very conscientious on evaluating the student's presentation performance or academic ideas during class discussion. However, if we could get more timely feedback on paper review, it will be better.
- It would have better if more topics were taught by the instructor instead of student presentations, some of which were really not helpful.
- I think some additional help with hands on working with CNNs would have helped.

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6 - 6A - How would you rate the physical environment in which you took this class based upon your ability to see, hear, concentrate, and participate?

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Very Bad	(1)	0	0%				5.17	5.09	5.04		
Bad	(2)	0	0%								
Poor	(3)	0	0%								
Fair	(4)	1	8.33%								
Good	(5)	8	66.67%								
Very Good	(6)	3	25%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.17	0.58	5.00	15,451	5.09	0.95	5.00	2,891	5.04	0.99	5.00

7 - 7A - Please add any comments about the physical environment here:

- I think physical environment is good.
- Not apply

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

I improved my ability to problem solve.

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%				4.75	4.96	5.02		
Disagree	(2)	0	0%								
Somewhat disagree	(3)	1	8.33%								
Somewhat agree	(4)	3	25%								
Agree	(5)	6	50%								
Strongly agree	(6)	2	16.67%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	4.75	0.87	5.00	15,496	4.96	1.10	5.00	2,899	5.02	1.05	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The textbook or course readings made a valuable contribution to my learning.

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Strongly disagree	(1)	0	0%				5.25	4.40	4.55		
Disagree	(2)	0	0%								
Somewhat disagree	(3)	0	0%								
Somewhat agree	(4)	2	16.67%								
Agree	(5)	5	41.67%								
Strongly agree	(6)	5	41.67%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.25	0.75	5.00	15,419	4.40	1.50	5.00	2,882	4.55	1.41	5.00

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8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The objectives of the course were clearly explained.

Response Option	Weight	Frequency	Percent	Percent Responses				Means			
Strongly disagree	(1)	0	0%								
Disagree	(2)	1	8.33%								
Somewhat disagree	(3)	0	0%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	5	41.67%								
Strongly agree	(6)	5	41.67%								
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.08	1.16	5.00	15,479	4.96	1.18	5.00	2,899	5.08	1.06	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The out-of-class assignments were educationally valuable.

Response Option	Weight	Frequency	Percent	Percent Responses				Means			
Strongly disagree	(1)	0	0%								
Disagree	(2)	0	0%								
Somewhat disagree	(3)	2	16.67%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	5	41.67%								
Strongly agree	(6)	4	33.33%								
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	4.92	1.08	5.00	15,391	4.95	1.22	5.00	2,884	5.08	1.14	5.00

9 - The instructor related theories and concepts to practical issues.

Jia-Bin Huang

Response Option	Weight	Frequency	Percent	Percent Responses				Means			
Strongly disagree	(1)	0	0%								
Disagree	(2)	0	0%								
Somewhat disagree	(3)	1	8.33%								
Somewhat agree	(4)	1	8.33%								
Agree	(5)	6	50%								
Strongly agree	(6)	4	33.33%								
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	5.08	0.90	5.00	17,268	5.18	1.07	5.00	3,098	5.23	1.02	6.00

10 - Compared to other courses at this level, the difficulty of this course is:

Response Option	Weight	Frequency	Percent	Percent Responses				Means			
much less than average	(1)	0	0%								
slightly less than average	(2)	0	0%								
average	(3)	1	8.33%								
slightly more than average	(4)	4	33.33%								
much more than average	(5)	4	33.33%								
I have not taken other courses at this level	(6)	3	25%								
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	4.75	0.97	5.00	2,882	3.89	1.14	4.00	2,882	3.89	1.14	4.00

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11 - The grade I expect in this course is:

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
not applicable	(1)	0	0%								
pass	(2)	0	0%								
F	(3)	0	0%								
D	(4)	0	0%								
C	(5)	1	8.33%								
B	(6)	0	0%								
A	(7)	11	91.67%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	6.83	0.58	7.00	2,889	6.15	1.16	6.00	2,889	6.15	1.16	6.00

12 - Approximately how many hours per week outside of class do you spend on homework, reading, and projects for this course?

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
0-2	(1)	0	0%								
3-5	(2)	3	25%								
6-9	(3)	5	41.67%								
10-14	(4)	2	16.67%								
15 or more	(5)	2	16.67%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	3.25	1.06	3.00	2,892	2.74	1.09	3.00	2,892	2.74	1.09	3.00

13 - At the end of this course, how do I rate my ability to:

Describe state-of-art approaches in object recognition and scene understanding

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	0	0%								
Fair	(2)	1	8.33%								
Good	(3)	8	66.67%								
Excellent	(4)	3	25%								
N/A	(0)	0	0%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	3.17	0.58	3.00	12	3.17	0.58	3.00	12	3.17	0.58	3.00

13 - At the end of this course, how do I rate my ability to:

Discuss tools from other fields (e.g., machine learning) that are frequently used to solve computer vision problems

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	0	0%								
Fair	(2)	1	8.33%								
Good	(3)	6	50%								
Excellent	(4)	5	41.67%								
N/A	(0)	0	0%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	3.33	0.65	3.00	12	3.33	0.65	3.00	12	3.33	0.65	3.00

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13 - At the end of this course, how do I rate my ability to:

Implement two approaches to address important problems in computer vision

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	2	16.67%								
Fair	(2)	1	8.33%								
Good	(3)	6	50%								
Excellent	(4)	3	25%								
N/A	(0)	0	0%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	2.83	1.03	3.00	12	2.83	1.03	3.00	12	2.83	1.03	3.00

13 - At the end of this course, how do I rate my ability to:

Discuss and critique research papers in computer vision

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	0	0%								
Fair	(2)	0	0%								
Good	(3)	7	58.33%								
Excellent	(4)	5	41.67%								
N/A	(0)	0	0%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	3.42	0.51	3.00	12	3.42	0.51	3.00	12	3.42	0.51	3.00

13 - At the end of this course, how do I rate my ability to:

Identify open research questions in computer vision

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	0	0%								
Fair	(2)	1	8.33%								
Good	(3)	7	58.33%								
Excellent	(4)	4	33.33%								
N/A	(0)	0	0%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/16 (75%)	3.25	0.62	3.00	12	3.25	0.62	3.00	12	3.25	0.62	3.00