

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

Course: ECE\_5554\_82848\_201709: Computer Vision-ECE\_5554\_82848\_201709

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)	1	2.04%						5.51	5.21	5.18		
Disagree	(2)	0	0%										
Somewhat disagree	(3)	0	0%										
Somewhat agree	(4)	2	4.08%										
Agree	(5)	15	30.61%										
Strongly agree	(6)	31	63.27%										
				0	25	50	75	100	Instructor	College	Department		
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
49/63 (77.78%)	5.51	0.87	6.00	22,879	5.21	1.05	5.00	3,132	5.18	1.12	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)	2	4.08%						4.80	4.94	4.82		
Disagree	(2)	0	0%										
Somewhat disagree	(3)	5	10.2%										
Somewhat agree	(4)	11	22.45%										
Agree	(5)	12	24.49%										
Strongly agree	(6)	19	38.78%										
				0	25	50	75	100	Instructor	College	Department		
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
49/63 (77.78%)	4.80	1.29	5.00	22,782	4.94	1.25	5.00	3,119	4.82	1.35	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	2.04%						5.45	4.89	4.81		
Disagree	(2)	0	0%										
Somewhat disagree	(3)	0	0%										
Somewhat agree	(4)	4	8.16%										
Agree	(5)	14	28.57%										
Strongly agree	(6)	30	61.22%										
				0	25	50	75	100	Instructor	College	Department		
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
49/63 (77.78%)	5.45	0.91	6.00	22,788	4.89	1.27	5.00	3,119	4.81	1.35	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)	1	2.04%					5.63	5.30	5.31		
Disagree	(2)	0	0%									
Somewhat disagree	(3)	0	0%									
Somewhat agree	(4)	1	2.04%									
Agree	(5)	11	22.45%									
Strongly agree	(6)	36	73.47%									
				0	25	50	75	100	Instructor	College	Department	
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
49/63 (77.78%)	5.63	0.83	6.00	22,763	5.30	1.03	6.00	3,122	5.31	1.06	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)	2	4.08%					5.06	4.94	4.84		
Disagree	(2)	0	0%									
Somewhat disagree	(3)	2	4.08%									
Somewhat agree	(4)	7	14.29%									
Agree	(5)	16	32.65%									
Strongly agree	(6)	22	44.9%									
				0	25	50	75	100	Instructor	College	Department	
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
49/63 (77.78%)	5.06	1.20	5.00	22,651	4.94	1.28	5.00	3,106	4.84	1.39	5.00	

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**Instructor:** Jia-Bin Huang \*

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

**Jia-Bin Huang**

- The videos and the practical assignments
- He was very helpful in office hours and took the time to make sure that you understood the concepts correctly.
- Dr. Huang aimed to cover as many subjects in computer vision domain as possible, which was helpful. However, due to the massive amount of contents, his explanation became ineffective sometimes (a short time was given to him in a way). For example, there are algorithms that require a thorough explanation (e.g., Fourier transform in image processing) but, it was ineffectively delivered. He tried to help students especially when in office hours, but in the middle of the course, his response was not provided in Piazza (an online gathering place for students to ask their questions). Accordingly, students had to wait to get a response more than before.
- Not only the lecture but also the homework is very helpful.
- His after class instruction was really helpful
- There were examples of finished products (video & pictures).
- The homework were really helpful in learning the complex topics presented in the class.
- He explained theories and concepts thoroughly on the class, and answered the online discussion on Piazza always on time.
- Lead us to the world of Computer Vision!
- The slide decks were very well put together.
- Having an online discussion board on piazza was very helpful in addressing common questions among the class and related to the homework. Dr. Huang's enthusiasm and passion for the material and his awareness of the state-of-the-art and sharing that in class examples was also motivating.
- 1. The homeworks are challenging but very helpful in implementing what we learnt in the class and from published papers. 2. The instructor always starts a lecture by giving a brief review of all the preceding lectures, which is really helpful to refresh our memory of past lectures and also to get the overall structure of the course.
- Incredibly helpful and always available for questions
- The instructor puts in a lot of effort for the students. I really appreciate his involvement in clearing doubts on piazza and via video chat and during the office hours. I haven't seen any faculty put in so many hours. I thank you a lot for this. This course was hard and it required a lot of work. Thank you for helping so that we were able to reach that level.
- Course materials, assignment help.
- The classes were very coherent
- Dr. Huang took time to explain the homework, refresh and review the previous classes. His office hours were effective. The TA's response and the professor's response to questions on Piazza were prompt, well explained and helped in our assignments.
- Give homeworks related to the problems taught in class
- homework
- Previous class recap.
- So kind
- Actively respond on Piazza, while also reply the email to give suggestions on project
- Answer questions in office hours and on piazza very carefully.

### 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.**

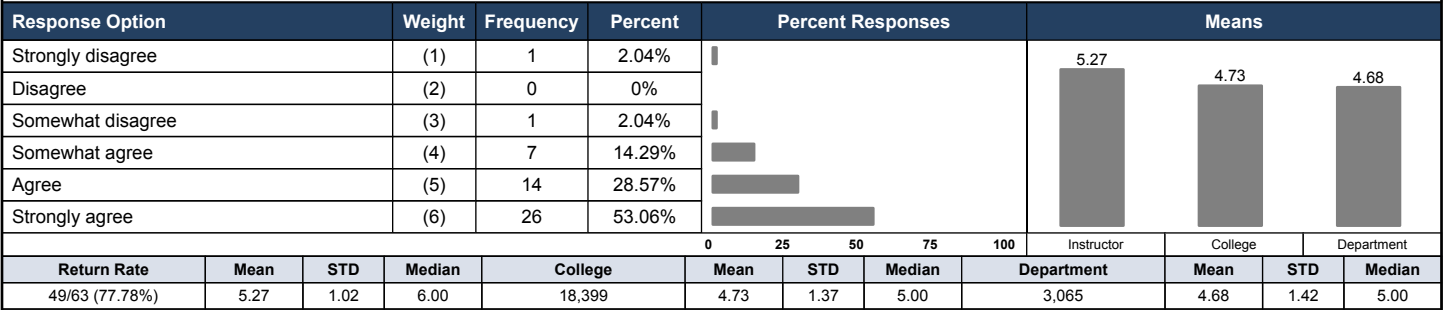
Response Option	Weight	Frequency	Percent	Percent Responses					Means		
Strongly disagree	(1)	1	2.04%						5.20		
Disagree	(2)	0	0%						College		
Somewhat disagree	(3)	0	0%						Department		
Somewhat agree	(4)	9	18.37%						Instructor		
Agree	(5)	16	32.65%						College		
Strongly agree	(6)	23	46.94%						Department		
				0	25	50	75	100	Instructor	College	Department
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
49/63 (77.78%)	5.20	0.98	5.00	18,490	5.02	1.14	5.00	3,081	4.99	1.14	5.00

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**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?**

- Read the material more
- I have spent more than 20 hours a week to understand the contents and do the homework. It was not expected to spend such amounts of efforts. It was helpful for students to deepen their understanding in computer vision, but it was too challenging considering the fact that graduate students in general have other courses and need to do their own research.
- To do more project and read papers.
- asked more questions in class
- I could've used the skills learned to apply in actual implementations
- I visited professor's and TA's office hour frequently.
- Read more papers in CV and ML.
- Be more interested in the Computer Vision
- I could have attended more office hours and asked questions there, as well as on piazza.
- I could have done better by finishing every single graduate point question.
- Besides slides, notes provided as handouts would be better too.
- Be interested. Motivated. Start early.
- Start the homework early.
- I could have improved my learning rate.
- Class size can be reduced
- I should have probably visited him often during his office hours to clarify concepts.
- The flow of the course was too fast. I lost track a few times. I should have spent more time understanding the subject matter taught in class.
- Fully understand he material
- Had better command over linear systems of equations and matrix operations to start off with.
- Start homework early.
- To devote some time to look into the papers describing the classical CV algorithms.
- Nope

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

**Jia-Bin Huang**

- He was good
- Yuliang is one of the best TAs I've had and he really worked hard to make sure everyone did well on the homework and understand the material. The only criticism I have of the course is that many of the lecture slides were borrowed from other sources, and they often didn't explain their notation well (so you would have no idea how to actually implement the formulas). They also sometimes didn't explain enough to understand the concepts.
- Several points are recommended for an instructor to get this course improved. 1) Office hour was not enough considering the number of students (One instructor and one TA for 63 students). Although Piazza was offered for students to upload their questions at any time, sometimes students had to wait for 3 days to get an answer. Given that two weeks for each homework, it was not a good response time. 2) TA was not only unknowledgeable but also unprepared. It is highly related to the condition mentioned above, it was understandable that TA, by himself alone, was in a pressure to deal with all students, but he did not prepare for the office hour, hence a wrong explanation was given to students, which caused a lot of confusion for students. Furthermore, his responses in Piazza was very ineffective, not understandable, and even wrong. It was a devastating experience for students since TA is, in general, more accessible for students. Moreover, feedback after the grading was not understandable. TA made incorrect announcements several times, which proved himself as unprepared for the course. 3) Homework was too difficult. This course required to implement many algorithms without using any built-in function in MATLAB. Implementing an algorithm requires a full understanding of logic inside it, but, as aforesaid, an ineffective explanation was sometimes delivered (due to the massive amount of contents), and TA was not prepared, but students had to implement algorithms no matter what the circumstances were. The instructor and TA tried to reflect students' opinions in the first couple of times as they announced that the difficulties of homework were amended. However, it was still exacting. In consideration of the aim of homework as the understanding of the contents of the course, implementing algorithms without any use of built-in function might not be the constructive way as, for example, it requires a lot of MATLAB skills that many students did not have any experience in computer vision (there are functions that only computer visions people uses). Hints were given but it did not really help to solve (or implement) the algorithm considering the difficulties that they had. If the instructor wants to keep this difficulty, 1) it is highly recommended that he should clearly announce that all MATLAB skills are a must (not optional) to complete this course, or 2) he needs to deliver a class that explains the functions that are required for this course. A supplementary MATLAB class was provided by TA in the beginning of the course, but it was not enough to get homework done.
- Professor taught the course very carefully, well-prepared, full use of each lesson time.
- He is really excellent! I enjoyed all the classes.
- I feel like he should present the material in a different way. I felt as if I was in a student's defense the whole time. The information was good but it was more theory than application.
- The homeworks should have been more. And also they should have asked us to use the in-built libraries to implement some applications.
- There was a serious problem on this course. That's TA. TA has never done the homeworks that he even doesn't know what the HW required. When I asked TA about hw, he did provide us wrong direction or advice and it made us completely missing. I have never seen this NON-PREPARED TA. It would rather not ask TA about the HW. It made this semester a disaster in my graduate course work.
- Excellent Teacher!
- The course material was interesting and clearly structured, but the lectures were too long and focused too much on the motivation of why we are learning a certain concept rather than the concept itself most of the time. I found myself having trouble keeping up with the fast pace the main concepts (mathematical and algorithmic, rather than just examples of final applications) were brought up in class. I think the instructor could have tied examples to the algorithms, rather than just showing how cool they were as an end product, to help us understand the steps that were going on in the background of the application better. I think the instructor could have also spent more time on the math and algorithms, proportionately to just cool end results. I also think the instructor should have spoken a bit slower and clearer when it came to those slides in the class. The homework was incredibly difficult and the standard was set too high, in my opinion, for students whose life consisted of things besides studying, such as an assistantship and sleep and other classes. The instructor responded well when the class mentioned this by shortening the length of the assignments. I still believe they were too long and too difficult, considering the concepts we were asked to implement were only brushed over in class, while we heard how cool computer vision was but not given enough time to understand the underlying concepts. The topics were very dense and there was little time to review or tie the concepts together. It felt like we were racing through 90 slides every lecture, which I think is too much and not well focused and clear.
- It may be better if the instructor focuses even more on delivering the main concepts in intuitive ways.
- Very helpful professor. Also a special thank you to the TA. Very helpful
- Dr. Huang: Those of us who were not familiar with matlab at the start of this course were at a severe disadvantage. In fact, I had to use all 5 of my late days just on the first homework. I think that you should introduce a simple homework 0 that forces students to learn matlab so that they are prepared for homework 1-5.
- I found Dr.Huang's way of talking difficult to follow in the beginning, but after a few classes I could understand. I liked the way he had structured and framed the topics. The assignments also helped us a lot in our projects. But I wish Dr.Huang explained the concepts in a detailed, clear and cohesive manner. In order to understand the concepts taught in class, I also took a Computer Vision from Coursera taught by professor at Georgia Tech. I like the way that this professor explained the topics and navigated through the lecture slides. I think the students in the future would find that kind of teaching more helpful.
- Professor Huang is a good instructor.
- Go through examples or similar problems of homework and algorithm in the class
- Provide better starter code for homework. A lot of info is needed to get started.
- I believe more support resources should be devoted into course project, so the performance, creativity could be fully explored in CV field.
- I think he can give us more explanation of the algorithms

### 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%		5.48	5.11	5.05	Instructor	College	Department	
Bad	(2)	0	0%								
Poor	(3)	0	0%								
Fair	(4)	1	2.08%								
Good	(5)	23	47.92%								
Very Good	(6)	24	50%								
				0	25	50	75	100			
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
48/63 (76.19%)	5.48	0.55	5.50	18,340	5.11	0.96	5.00	3,052	5.05	0.98	5.00

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

- It was good
- In general, the physical environment was satisfactory but if an online access was available, it would have been much better for students. I was attending a conference during the semester but there was no way for me to cover the class I missed unfortunately.
- The Professor and TA are patient and helpful. Thanks for them.
- Please get a better microphone for big classes like this. Professor Huang always has some problem with that thing at every lecture. Additionally, the clip on the mic is not very suitable for some clothes, which causes the mic can't work properly. Maybe you can change the clip-style mic to a head-mount one.
- Positive!
- The microphone was useful, and Dr. Huang was very enthusiastic and encouraging to all students to participate.
- I wish there were more room to sit at the front of the class.
- The Mic was at times a problem. The size of the class is definitely going to increase next time. So the professor has to find a way to have a better mic or hold it stationary. Sometimes, I could not understand the way he spoke and the noise due the mic made it even more difficult.
- good
- There are period noise in the classroom, seems to come from the water tube
- The classroom was great, but the Professor ended up having to fix the microphone system quite often. Also, for classes such as these, watching lectures again is surely useful for homework and projects, or even just to get a better understanding of the subject. Recording the lectures would have been really helpful
- Nope

### 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%						5.20	4.95	4.93
Disagree	(2)	1	2.04%								
Somewhat disagree	(3)	1	2.04%								
Somewhat agree	(4)	5	10.2%	■							
Agree	(5)	22	44.9%	■■■■							
Strongly agree	(6)	20	40.82%	■■■■■							
				0	25	50	75	100	Instructor	College	Department
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
49/63 (77.78%)	5.20	0.87	5.00	18,412	4.95	1.10	5.00	3,066	4.93	1.09	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)	1	2.04%						4.82	4.37	4.50
Disagree	(2)	3	6.12%	■							
Somewhat disagree	(3)	1	2.04%								
Somewhat agree	(4)	10	20.41%	■■							
Agree	(5)	18	36.73%	■■■■							
Strongly agree	(6)	16	32.65%	■■■■■							
				0	25	50	75	100	Instructor	College	Department
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
49/63 (77.78%)	4.82	1.22	5.00	18,304	4.37	1.50	5.00	3,052	4.50	1.42	5.00

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Instructor: Jia-Bin Huang \*

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)	1	2.04%								
Disagree	(2)	0	0%								
Somewhat disagree	(3)	2	4.08%								
Somewhat agree	(4)	1	2.04%								
Agree	(5)	18	36.73%								
Strongly agree	(6)	27	55.1%								
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
49/63 (77.78%)	5.37	0.97	6.00	18,391	4.98	1.14	5.00	3,060	4.96	1.14	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)	1	2.04%								
Disagree	(2)	0	0%								
Somewhat disagree	(3)	2	4.08%								
Somewhat agree	(4)	3	6.12%								
Agree	(5)	10	20.41%								
Strongly agree	(6)	33	67.35%								
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
49/63 (77.78%)	5.45	1.02	6.00	18,254	4.94	1.20	5.00	3,040	4.99	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)	1	2.08%								
Disagree	(2)	0	0%								
Somewhat disagree	(3)	1	2.08%								
Somewhat agree	(4)	4	8.33%								
Agree	(5)	9	18.75%								
Strongly agree	(6)	33	68.75%								
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
48/63 (76.19%)	5.48	0.99	6.00	22,322	5.18	1.05	5.00	3,072	5.11	1.11	5.00

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)	3	6.38%								
slightly more than average	(4)	14	29.79%								
much more than average	(5)	27	57.45%								
I have not taken other courses at this level	(6)	3	6.38%								
<b>Return Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>
47/63 (74.6%)	4.64	0.70	5.00	3,056	3.92	1.15	4.00	3,056	3.92	1.15	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)	1	2.04%								
pass		(2)	0	0%								
F		(3)	1	2.04%								
D		(4)	0	0%								
C		(5)	1	2.04%								
B		(6)	3	6.12%								
A		(7)	43	87.76%								
					0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
49/63 (77.78%)	6.69	1.06	7.00	3,054	6.14	1.08	6.00	3,054	6.14	1.08	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)	4	8.33%								
6-9		(3)	9	18.75%								
10-14		(4)	13	27.08%								
15 or more		(5)	22	45.83%								
					0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
48/63 (76.19%)	4.10	0.99	4.00	3,060	2.89	1.15	3.00	3,060	2.89	1.15	3.00	

13 - At the end of this course, how do I rate my ability to: contrast common image formation models												
Response Option		Weight	Frequency	Percent	Percent Responses			Means				
Poor		(1)	2	4.17%								
Fair		(2)	1	2.08%								
Good		(3)	23	47.92%								
Excellent		(4)	21	43.75%								
N/A		(0)	1	2.08%								
					0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
48/63 (76.19%)	3.34	0.73	3.00	48	3.34	0.73	3.00	48	3.34	0.73	3.00	

13 - At the end of this course, how do I rate my ability to: implement various ways of extracting features from images												
Response Option		Weight	Frequency	Percent	Percent Responses			Means				
Poor		(1)	2	4.08%								
Fair		(2)	1	2.04%								
Good		(3)	22	44.9%								
Excellent		(4)	23	46.94%								
N/A		(0)	1	2.04%								
					0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
49/63 (77.78%)	3.38	0.73	3.00	49	3.38	0.73	3.00	49	3.38	0.73	3.00	



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

Course: ECE\_5554\_82848\_201709: Computer Vision-ECE\_5554\_82848\_201709

Instructor: Jia-Bin Huang \*

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

segment an image into meaningful regions

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	2	4.08%								
Fair	(2)	3	6.12%								
Good	(3)	22	44.9%								
Excellent	(4)	21	42.86%								
N/A	(0)	1	2.04%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
49/63 (77.78%)	3.29	0.77	3.00	49	3.29	0.77	3.00	49	3.29	0.77	3.00

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

derive the theory behind multi-view geometry

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	1	2.17%								
Fair	(2)	9	19.57%								
Good	(3)	20	43.48%								
Excellent	(4)	15	32.61%								
N/A	(0)	1	2.17%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
46/63 (73.02%)	3.09	0.79	3.00	46	3.09	0.79	3.00	46	3.09	0.79	3.00

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

implement various approaches to recognizing objects and scenes in images

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	3	6.25%								
Fair	(2)	6	12.5%								
Good	(3)	16	33.33%								
Excellent	(4)	21	43.75%								
N/A	(0)	2	4.17%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
48/63 (76.19%)	3.20	0.91	3.00	48	3.20	0.91	3.00	48	3.20	0.91	3.00

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

implement techniques for processing video sequences

Response Option	Weight	Frequency	Percent	Percent Responses			Means				
Poor	(1)	6	12.24%								
Fair	(2)	9	18.37%								
Good	(3)	17	34.69%								
Excellent	(4)	14	28.57%								
N/A	(0)	3	6.12%								
				0	25	50	75	100	Instructor	College	Department
Return Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
49/63 (77.78%)	2.85	1.01	3.00	49	2.85	1.01	3.00	49	2.85	1.01	3.00