	Specialized Labels * labels in red are shared between teachers	Parameters				
		Layers	Hidden units	Learning rate	Batch size	Epochs
Table 2: Main experiments						
EMOTIONS						
Teacher0	0,1,2,3	1	32	0.001	8	1000
Teacher1	1,2,4,5	1	64	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
SCENE						
Teacher0	0,1,2,3	1	16	0.001	8	1000
Teacher1	1,2,4,5	1	32	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
YELP						
Teacher0	0,1,2,3,7	1	128	0.001	32	1000
Teacher1	2,4,5,6,7	1	256	0.001	32	1000
Student	0,1,2,3,4,5,6,7	1	32	0.001	32	200
YEAST						
Teacher0	0,1,2,3,4,5,6,7,8	1	32	0.001	8	1000
Teacher1	2,3,6,7,9,10,11,12,13	1	64	0.001	8	1000
Student	0,1,2,3,4,5,6,7,8,9,10,11,12,13	1	32	0.001	8	200
BIRD						
Teacher0	0,1,2,3,4,5,6,7,8,9,10,11,14	1	64	0.001	8	1000
Teacher1	0,3,4,5,9,10,12,13,14,15,16,17,18	1	128	0.001	8	1000
Student	0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18	1	32	0.001	8	200
TMC						
Teacher0	0,1,2,3,4,5,6,7,8,9,12,14,19,20	1	128	0.001	128	1000
Teacher1	0,6,10,11,12,13,14,15,16,17,18,19,20,21	1	256	0.001	128	1000
Student	0,1,2,3,4,5,6,7,8,9,10,11, 12,13,14,15,16,17,18,19,20,21	1	64	0.001	128	200
GENBASE						
Teacher0	0,1,2,3,4,5,6,7,8,9,10,11,14,17,18,20,21,23	1	128	0.001	8	1000
Teacher1	3,4,10,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	1	256	0.001	8	1000
Student	0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15, 16,17,18,19,20,21,22,23,24,25,26	1	64	0.001	8	200
MEDICAL						
Teacher0	0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15, 16,17,18,20,25,27,28,29,30,31,37,38,41,43	1	128	0.001	16	1000
Teacher1	2,4,10,11,19,20,21,22,23,24,25,26,27,28,29, 30,31,32,33,34,35,36,37,38,39,40,41,42,43,44	1	256	0.001	16	1000
Student	0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18, 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33, 34,35,36,37,38,39,40,41,42,43,44	1	64	0.001	16	200
Table 3: Many teachers (YELP)						
3 Teachers						
Teacher0	0,1,4	1	128	0.001	32	1000
Teacher1	1,2,5	1	256	0.001	32	1000
Teacher2	2,3,6,7	1	256	0.001	32	1000
Student	0,1,2,3,4,5,6,7	1	32	0.001	32	200
4 Teachers						
Teacher0	0,3,7	1	128	0.001	32	1000
Teacher1	0,1,4	1	256	0.001	32	1000
Teacher2	1,2,5	1	128	0.001	32	1000
Teacher3	2,6	1	256	0.001	32	1000
Student	0,1,2,3,4,5,6,7	1	32	0.001	32	200
5 Teachers						
Teacher0	0,3,7	1	128	0.001	32	1000
Teacher1	0,1,4	1	256	0.001	32	1000
Teacher2	1,2,5	1	128	0.001	32	1000

	Specialized Labels * labels in red are shared between teachers	Parameters				
		Layers	Hidden units	Learning rate	Batch size	Epochs
Teacher3	2,6	1	256	0.001	32	1000
Teacher4	2,7	1	256	0.001	32	1000
Student	0,1,2,3,4,5,6,7	1	32	0.001	32	200
Table 4: Heterogeneous teachers (SCENE)						
100%						
Teacher0	0,1,2,3,4,5	1	64	0.001	8	1000
Teacher1	0,1,2,3,4,5	1	128	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
75%						
Teacher0	0,1,2,3,4	1	64	0.001	8	1000
Teacher1	0,1,2,4,5	1	128	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
50%						
Teacher0	0,1,3,4	1	64	0.001	8	1000
Teacher1	1,2,3,4,5	1	128	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
25%						
Teacher0	0,1,2,3	1	64	0.001	8	1000
Teacher1	1,2,4,5	1	128	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200
0%						
Teacher0	0,1,2	1	64	0.001	8	1000
Teacher1	3,4,5	1	128	0.001	8	1000
Student	0,1,2,3,4,5	1	16	0.001	8	200