# Self- vs. Peer-Evaluation

Which one is more accurate?

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# Background

- Importance of developing the independent/self directed learning skills of students in HE
- To become effective independent learners students need to acquire good evaluation skills
- To what extent can they judge the quality of a piece of work?

# Background II

- We have previously focussed on self-evaluation Guest and Riegler, 2017
  - Students display high level of over-confidence
- Do students have a better understanding of the standards than their self evaluation estimates suggest?
- Do they find it particularly difficult to objectively evaluate the quality of their own work?
- Might they find it easier to accurately judge the quality of work produced by their peers?

### Literature

- Falchikov and Goldfinch (2000)
  - Meta analysis
- Ashenafi (2017)
  - "corroborates the findings of Falchikov and Goldfinch"
- Limited number of papers compare self, peer and tutor scores/grades
  - Sunol, Arbat, Pujol, Feliu, Fraguell and Llado (2016)

#### Some research design issues

- Inter-marker reliability
- Gatekeeper activity
- Impression management bias
- Difficult task
  - Mark incentive

# **Research Design**

- Essay title plus assessment criteria were released 1 month before deadline.
- Essay deadline:
  - Self-evaluation form submitted.
- 1 day after essay deadline:
  - Essays allocated randomly to students using "The Workshop" tool in Moodle.
- 1 week after essay deadline:
  - Peer-evaluation form submitted

#### Data

- 131 students, 110 students agreed to participate in the study.
- 77 Male, 33 Female students
- 76 students have UK Education background (A levels or BTEC)
- 8 students repeated the module
- 11 students are ERASMUS/Direct Entry

### **Results (First Look)**

Variable	Obs	Mean	Std. Dev.	Min	Max	t test
Tutor Mark	110	56.51	9.83	3	78	
Self- Evaluation	110	59.64	8.23	0	72	p = 0.01
Tutor Mark	110	55.54	8.97	25	80	
Peer- Evaluation	110	56.35	12.31	0	87	p = 0.57



#### SE, PE and Tutor Grade differences





Student ---- Tutor Grade = Self-Evaluation





#### Conclusion

- Students are on average more accurate in evaluating the work of their peers than their own work
- Data on Peer-evaluation is more dispersed than on selfevaluation
- Students are very heterogenous with respect to SE and PE precision
- Trade off between emotional attachment and cognitive workload
- Surprise about quantity of feedback provided

#### What's next?

- 94 student provided feedback on peer-essay (voluntarily)
- Analyse impact of student ability on evaluation accuracy.
- Are results sensitive with respect to timing?