

A TA-selection Process that Increases Representation of Women

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Design Goals

- Scalability: 100-200 applicants/semester
- Consistency: 4-6 faculty involved each semester
- Effectiveness: evaluate teaching ability, not academic performance

Two-phase Hiring Process

1. Applicants submit teaching videos (~200 new applicants)

1

Applications with
teaching videos



Faculty review
videos

Two-phase Hiring Process

1. Applicants submit teaching videos (~200 new applicants)
2. Best applicants interviewed in person (~30 interviews)
3. New TAs hired (~15)



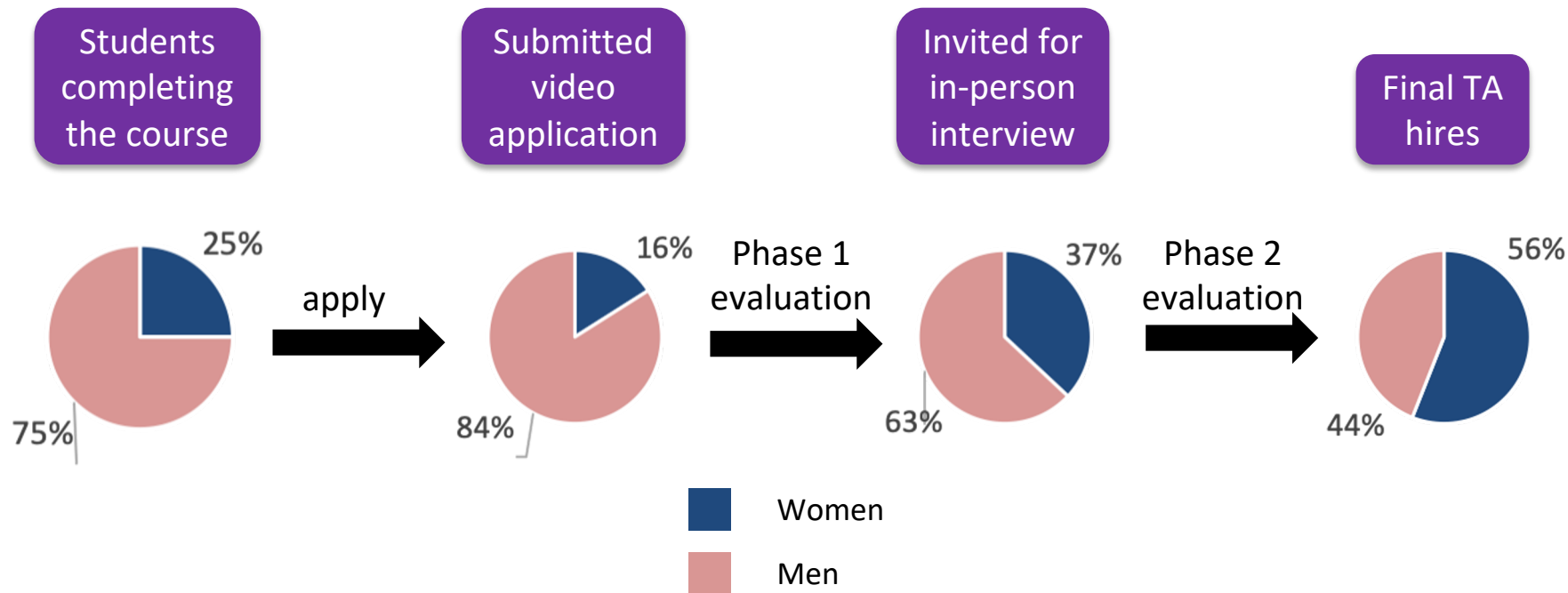
Application-review Criteria

- Faculty watch videos (at 2x speed), rate them on 5-point scale
- **We do not consider GPA or grade in deciding who to interview**

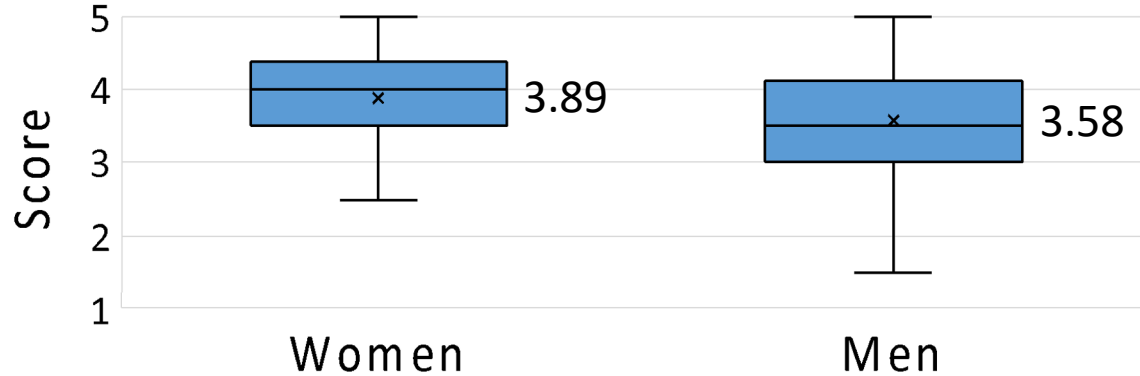
In-person Interviews

- 30-minute slot, 2 faculty members
- Question and answer, including question on diversity and inclusion
- Teaching demo

Gender Breakdown at Each Step



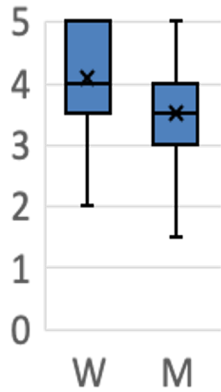
Evaluation of Videos



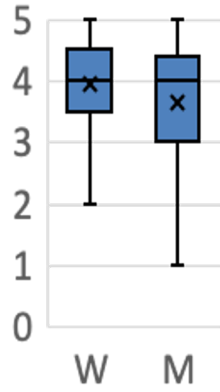
- Women do significantly better than men

Evaluation of Interviews

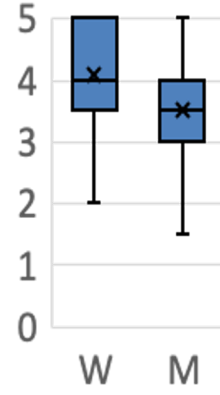
Clarity ✓



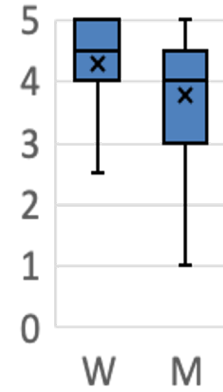
Technical Proficiency



Use of Whiteboard ✓

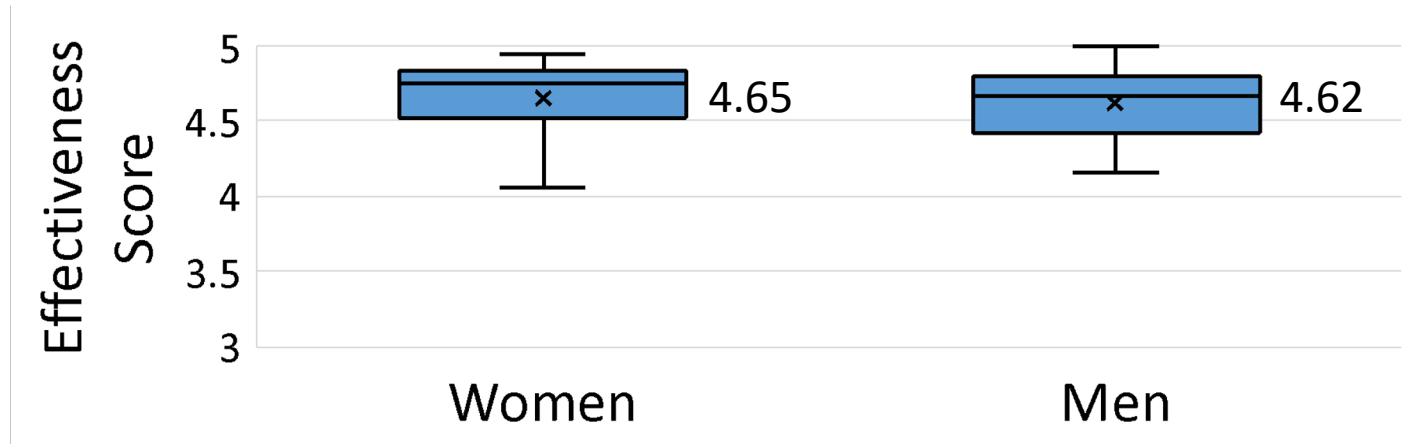


Responsiveness to Students ✓



- Women rate significantly better than men in 3 of the 4 categories

Course Evaluations



- Women and men TAs are equally effective

Summary

- Two-phase interview process scales, produces staff where half the TAs are women
- **No significant correlation between TA's GPA or grade and performance on any metric**
- See SIGCSE'19 paper for full details

<http://bit.ly/TAhiring>