

PROFESSIONAL DEVELOPMENT PROGRAMS

TRANSFERABLE SKILLS IN GRADUATE EDUCATION

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CGS 2012 ANNUAL MEETINGS

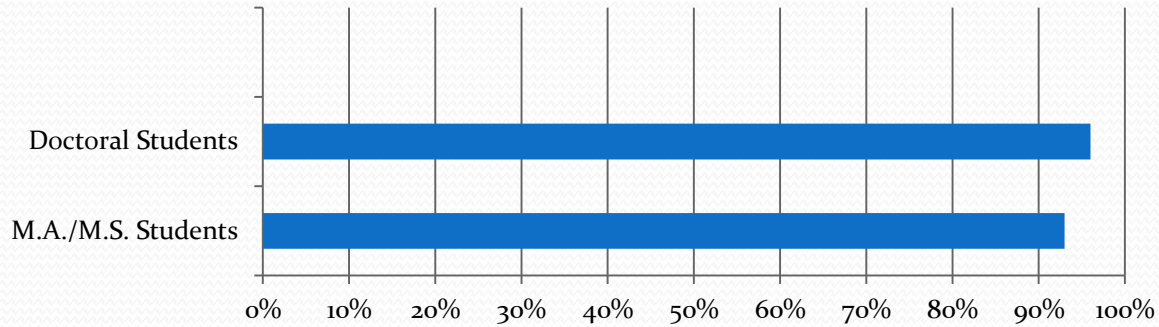
Looking Backwards Moving Forward

- Professional skills under the apprenticeship model of graduate education
- Changes in modes of research-networked, complex, and interdisciplinary
- Career trajectories of graduate students
- 21st century professional skill development in graduate programs and in graduate school

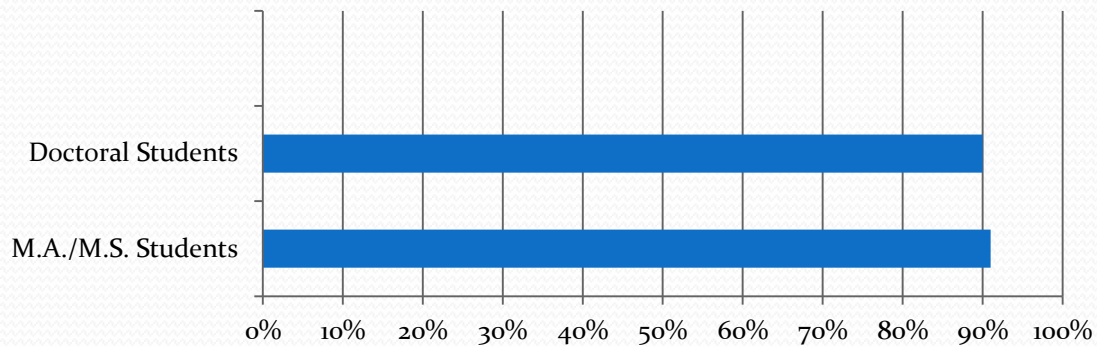
A snapshot of the student perspective

- Findings from 2012 survey on Professional Development across our AS&E graduate program
- Gauge how effective we are in preparing our students to succeed professionally
- Identify areas of success and areas that need improvement
- Total Responses: 160 Master's students; 116 Doctoral students
- Findings (based on responses “Strongly Agree” or “Agree” to questions posed in survey)

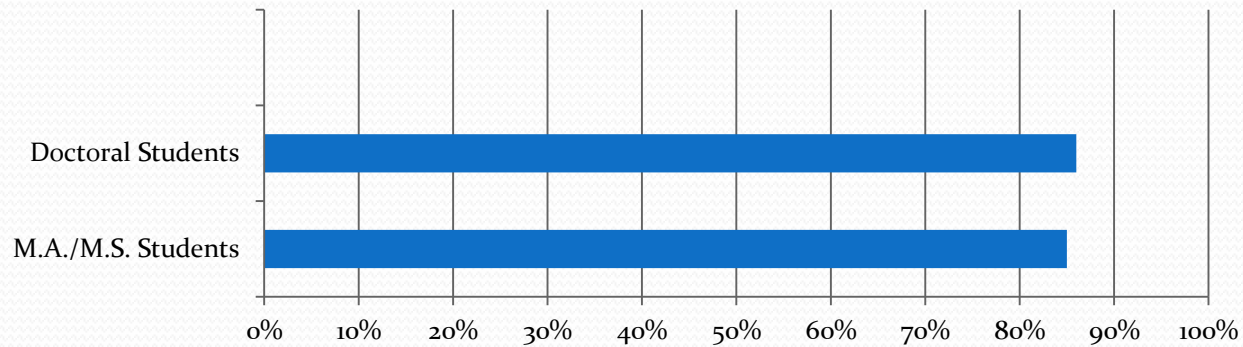
Enhancing my skills in becoming an expert in my field.



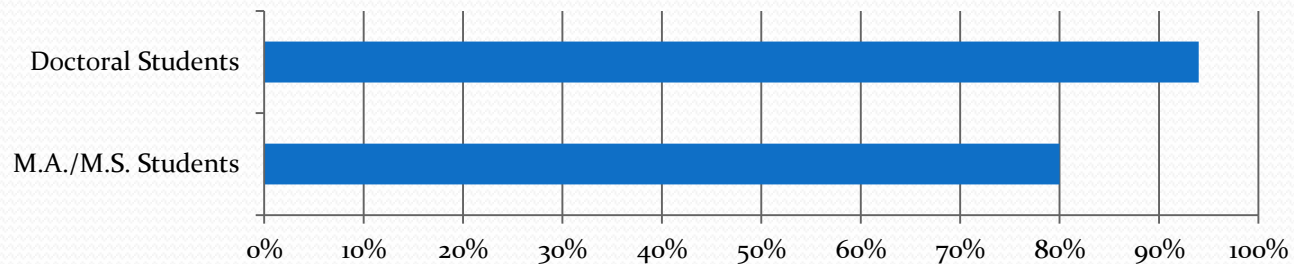
Keeping up with current advances in my field

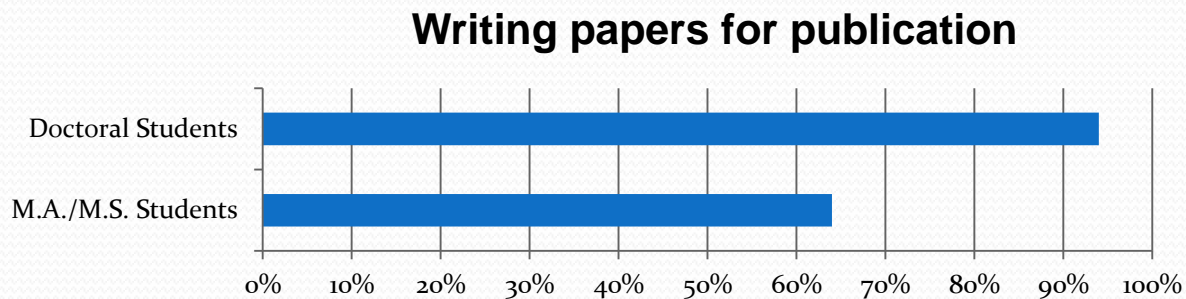
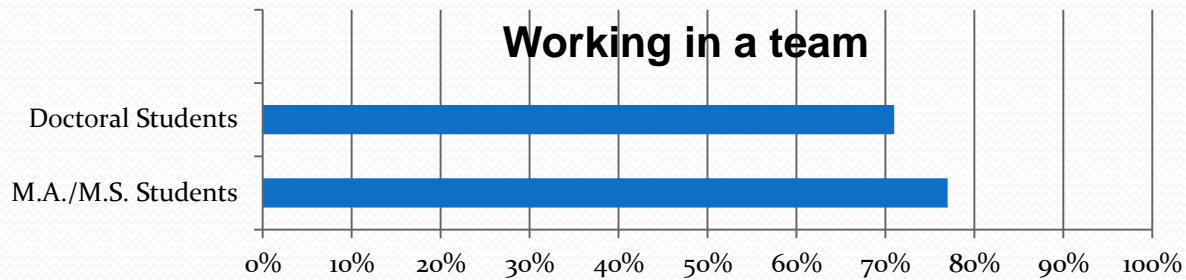


Knowing the latest research techniques

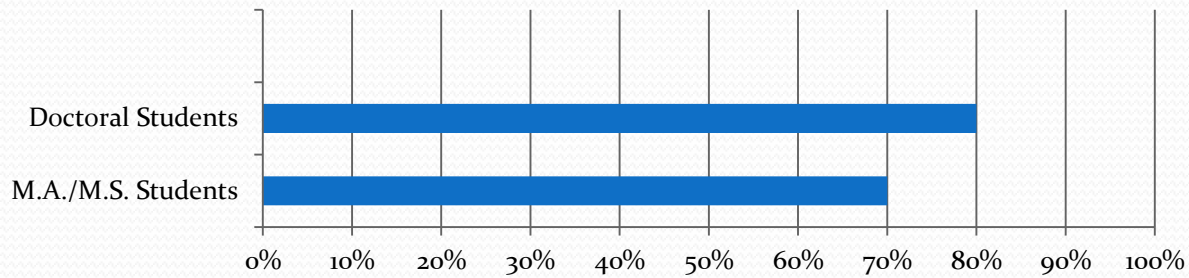


Presenting research to an audience of peers

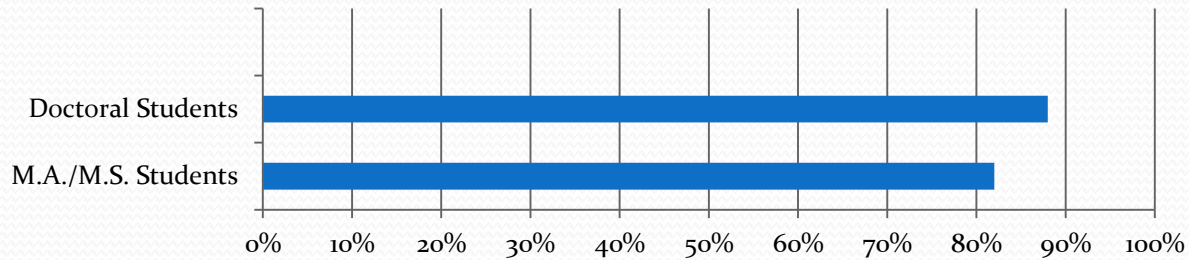




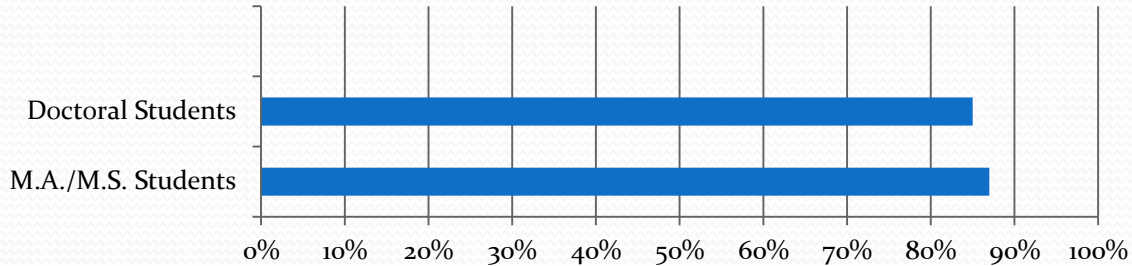
Collaborating with other researchers



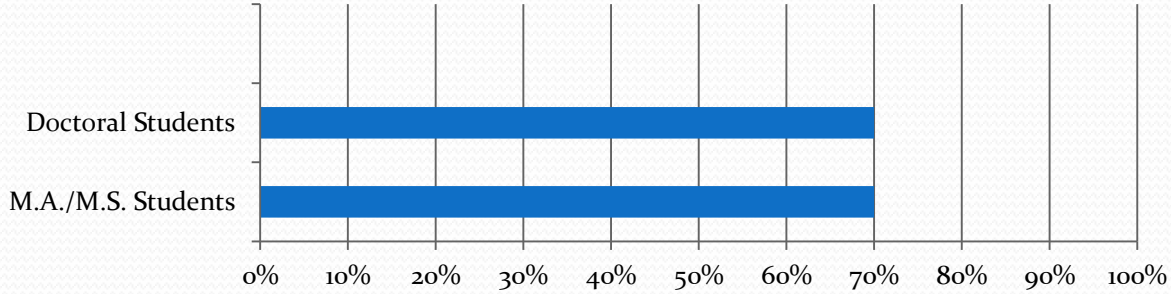
Understanding the principles of ethical conduct of research



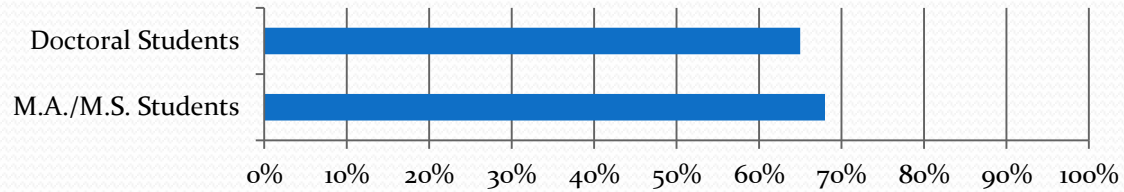
Understanding how an academic organization works



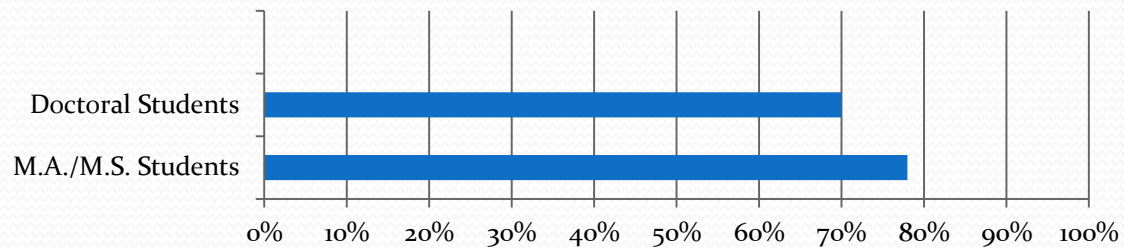
Facilitating interdisciplinary interactions



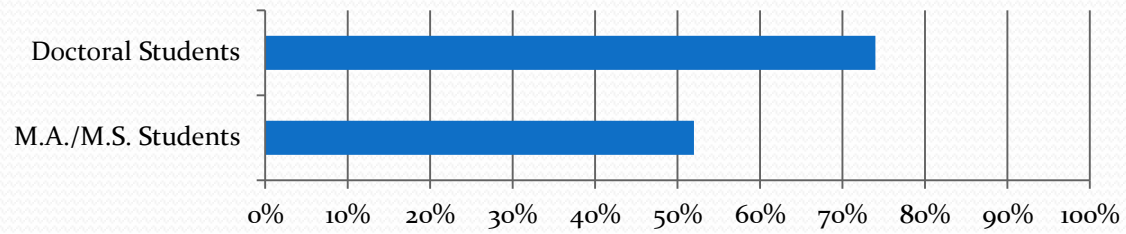
Leading a team



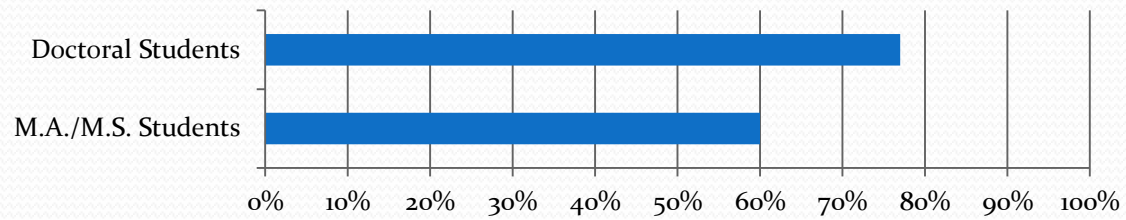
Negotiating with people in a position of authority



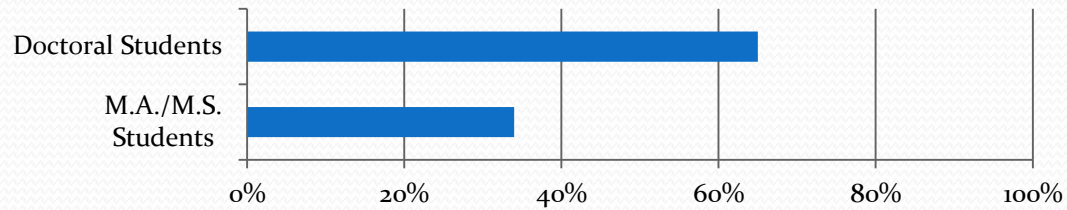
Supervising others



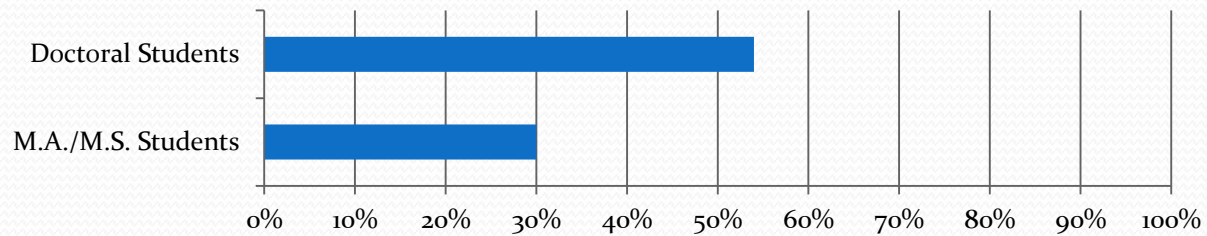
Teaching



Writing Grant proposals



Managing a research group or laboratory



Transferable Skill Set

- Writing papers for publication
- Teaching
- Oral Communication
- Written Communication
- Presentation
- Team-work
- Supervising others
- Collaboration with interdisciplinary peers
- Writing grant proposals
- Negotiating with people in authority
- Leading a team
- Training others
- Problem-solving
- Providing feedback and critique
- Facilitating discussion-groups and meetings
- Experience in working with diverse groups
- Ethics and professional conduct
- Adaptability to grasp new technologies
- Time management skills
- Adaptability to change
- Ability to learn fast new things
- Ability to take risks
- Ability to innovate
- Managing a budget
- Resilience
- Ability to meet deadlines

Survey of Graduate Deans in Pathway Report

- http://www.pathwaysreport.org/rsc/pdf/survey_graduate_deans.pdf
- 6C: How *effective are professional development/skills workshops in promoting* career development among graduate students at your university?
- 52% (110) indicating that they were somewhat effective and 42% (89) very effective, and 2% not effective

Workshop Participants Top Choices:

- Communication, both oral and written (#1)
- Ethics and professional conduct (#2)
- Time management skills (#3)
- Team-work (#3)

- Experience in working with diverse groups (#4)
- Resilience (#4)

- #1 in every group's top pick