EOAS Alumni Survey 2015

Executive Summary

Summaries will focus primarily on data as a function of degree and year, please see individual graphs for detail related to specific majors. Bookmark links should be available in pdf.

Many conclusions could be drawn from these results. While I offer a few speculations, I leave most interpretations to the EOAS faculty and your knowledge of present and historical context.

In the following informal summary, Likert rankings of Satisfied (4) and Very Satisfied (5) will often be combined and referenced in shorthand as 4+5.

Writing Skills

- sum of 4+5 similar across all degrees, slight increase from BSc to PhD
- However 15% of BSc were unsatisfied.
- 80% 4+5 for the period 2010-, whereas other years are only 63% 70%

Oral Presentation Skills

- Improvement as a function of degree stronger than for written
- 4+5 = 50%, 72%, and 83% for Bsc, MSc, and PhD, respectively
- Very Satisfied (5) increases from 15% to 30% to ~50% from BSc to MSc to PhD
- ~23% of BSc Unsatisfied
- 80% 4+5 for the period 2010-, whereas other years are only 30% 60%

Poster Presentation Skills

- Distribution similar as a function of degree
- 4+5 similar for all degrees, 38%, 45%, and 45%
- 5 increase with graduate degrees, ~5% BSc, ~20% for both MSc and PhD
- ~40% neutral for all degrees, perhaps never had the opportunity
- Strong improvement as a function of year, demonstrating both the increasing prevalence of posters, but also that our graduates are learning the skill!

Research Skills

- 4+5 very high across all degrees: 78%, 91%, 95% for BSc, MSc, PhD
- 5 increases strongly from 22% to 43% to 63% for BSc, MSc, PhD

Field Skills

- Results similar as a function of degree
- 4+5 is similar from 1950 1999 (70 80%), then decreases to 62% in 2000 2009, and then to $\sim 45\%$ in 2010 present.

Lab Skills

- 4+5 similar for all degrees, but Very Satisfied is similar for MSc and PhD and higher than BSc
- Some variation as a function of year, may just be noise

Computer Programming

- 4+5 increases from 20% to 37% to 56% from BSc to MSc to PhD
- Geophysics by far the strongest
- Percentage of Unsatisfied and Very Unsatisfied actually increases in 2000 2009 and 2010 present. Could represent a greater awareness of the need for computer programming skills and therefore perhaps a harsher assessment (?)

Computer Modelling

- 4+5 increases from 18% to 37% to 43% from BSc to MSc to PhD
- Geophysics the strongest
- Percentage of Unsatisfied and Very Unsatisfied actually increases in 2000 2009 and 2010 present, similar to results for Computer Programming

Data Interpretation

• Good across all degrees, slight improvement for MSc and PhD

Problem Solving Skills

- 4+5 ~85% across all degrees
- 5 increases from ~22% for BSc to 40% and 36% for MSc and PhD

Calculus

- Difficult to interpret
- 4+5 is $\sim 50\%$ for BSc, only $\sim 25\%$ for MSc and PhD
- Large percentage of responses are Neutral, perhaps many respondents simply did not think that they used calculus during their EOAS degree

Differential Equations

- Somewhat similar to results of calculus (large amount of Neutral responses)
- 4+5 is 42% for BSc, only $\sim 30\%$ for MSc and PhD
- Strong shift toward greater percentage of 4+5 in 1990 present compared to 1970 –
 1989

Teamwork Skills

- Very high for BSc, 83% 4+5
- MSc and PhD still high at 4+5 percentages of 52% and 62%, respectively
- As a function of year, 4+5 around $\sim 60\%$ from 1950 1999, then $\sim 80\%$ from 2000 present

Leadership Skills

- 4+5 decreases from 60% to 51% to 38% from BSc to MSc to PhD
- ENVR and GEO are higher, could relate to involvement in student organizations
- 4+5 increases from 40 45% in 1950 1999, to ~55% in 2000 2009, to 70% in 2010 present

Time Management Skills

- Very similar across all degrees
- 4+5 is 40-50% prior to 2009 (although only 30% in 1980s) and then increases to 73% in 2010- present

Project Management Skills

- Very similar across all degrees
- 4+5 is 40-50% prior to 2009 and then increases to nearly 70% in 2010- present

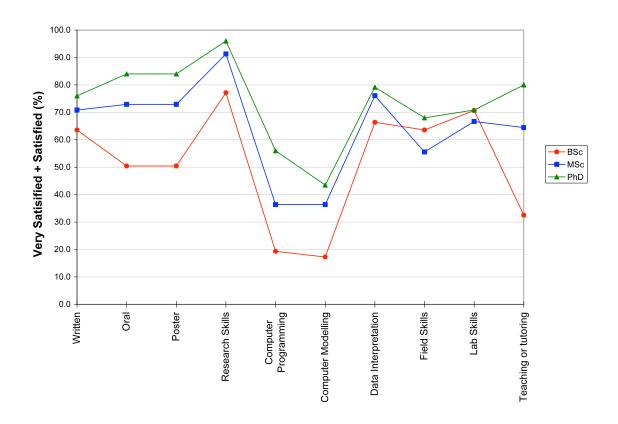
Teaching and Tutoring Skills

- 4+5 increases 33% to 63% to 80% for BSc, MSc, PhD
- PhD had no responses of Unsatisfied or Very Unsatisfied
- As a function of year, Unsatisfied and Very Unsatisfied actually increase in the 2000s, perhaps demonstrating a recognition of the need for these skills and thus an unsatisfied response if they did not feel they gained these skills (similar to computer programming and modelling)

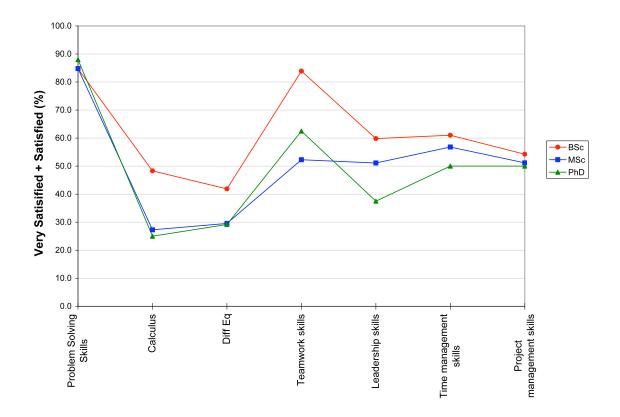
Summary plots: f(major), f(year)

f(major)

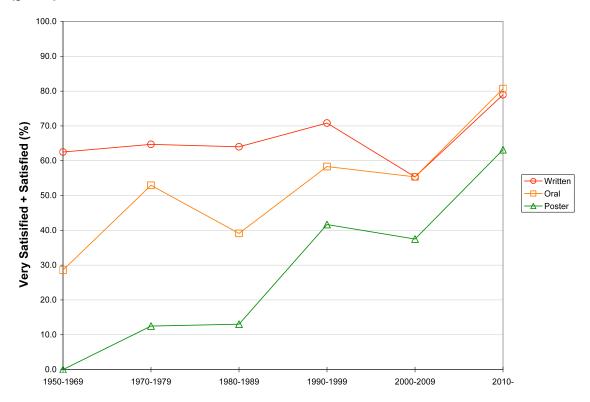
As may be expected, rankings increase for many skills from BSc to MSc, to PhD.

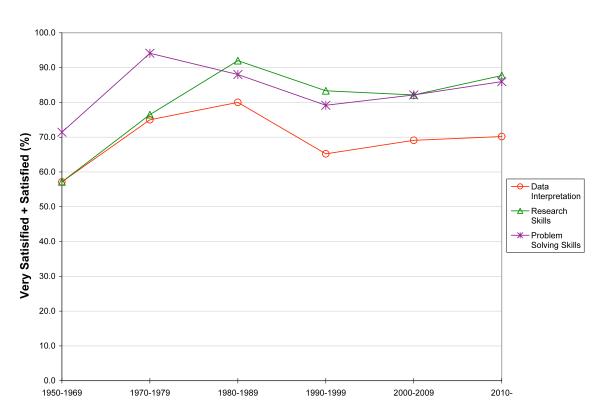


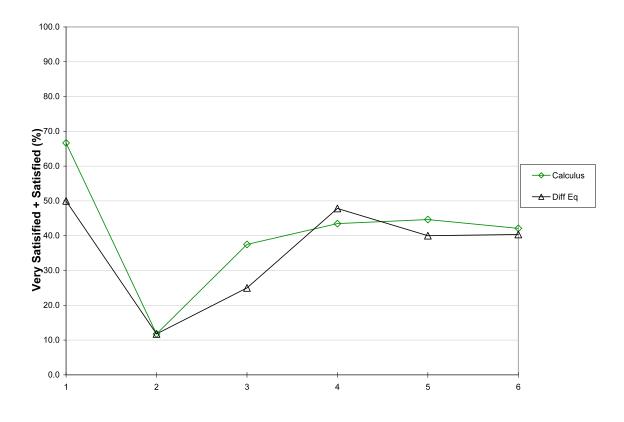
However, other skills are ranked highest among BSc

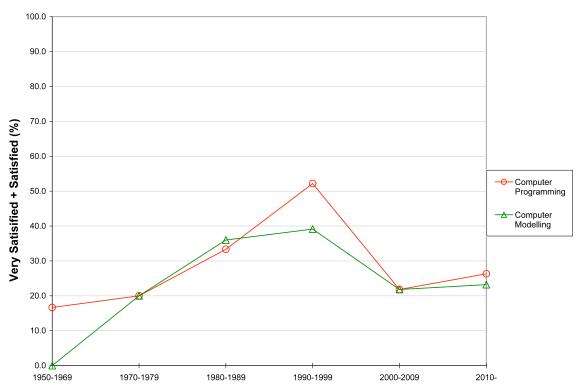


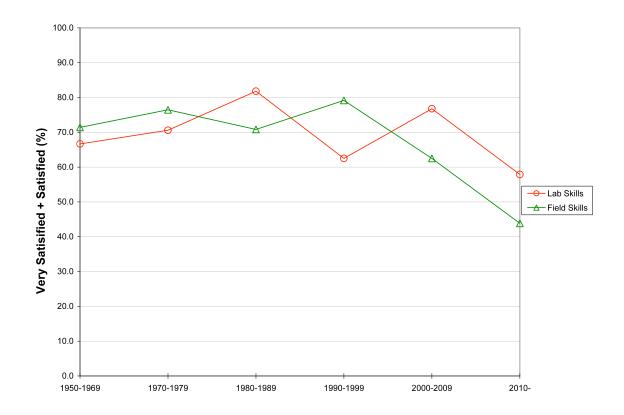
f(year)

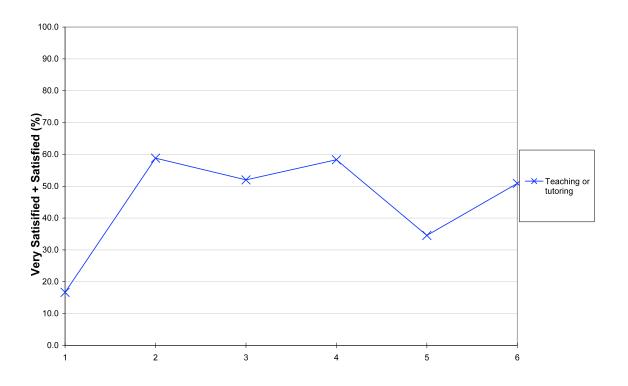


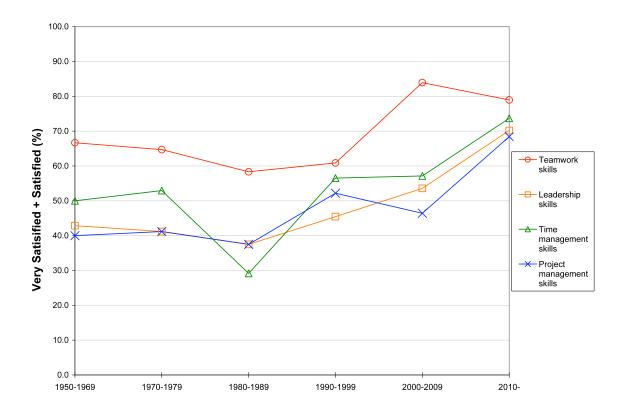




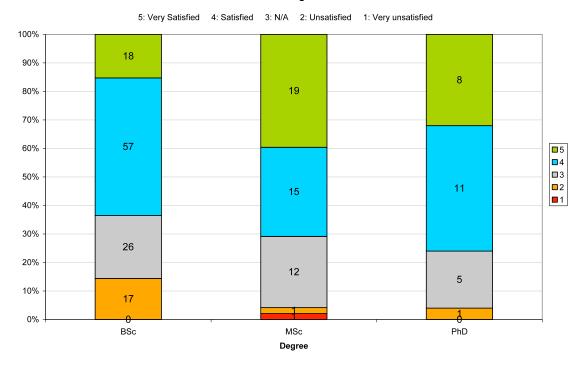




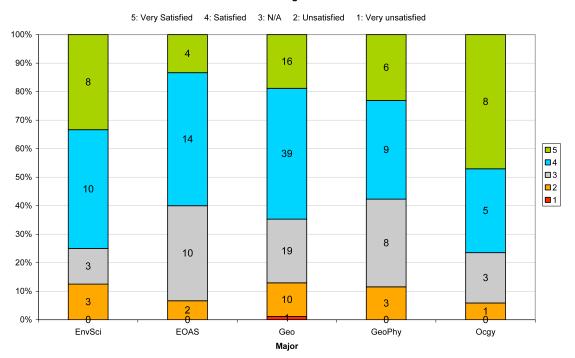


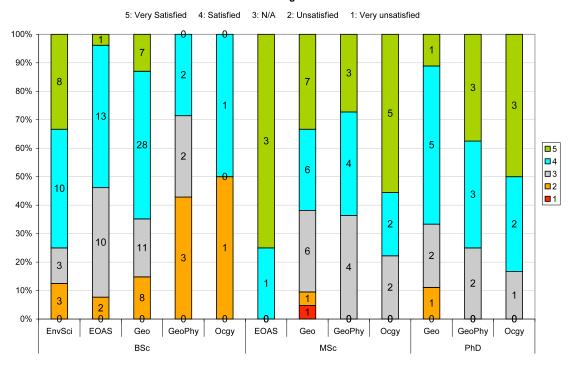


Writing

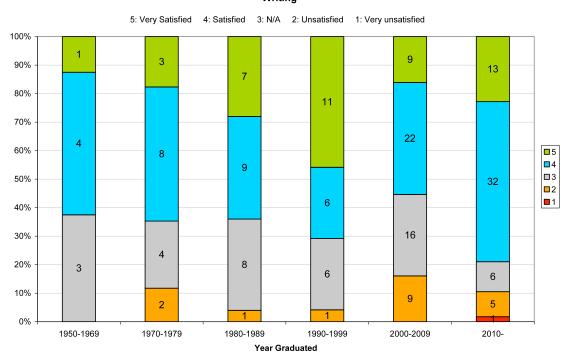


How Satisfied were you acquiring the following skill during your EOAS degree? **Writing**





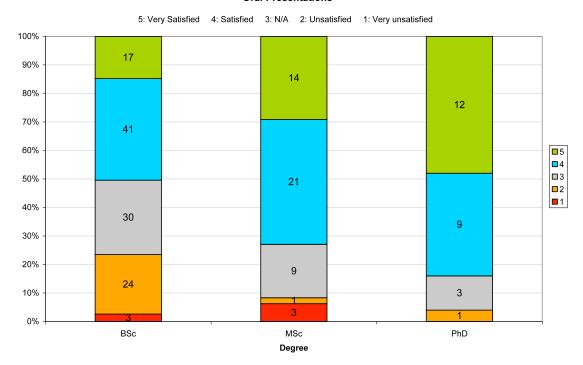
How Satisfied were you acquiring the following skill during your EOAS degree? Writing



Oral Presentations

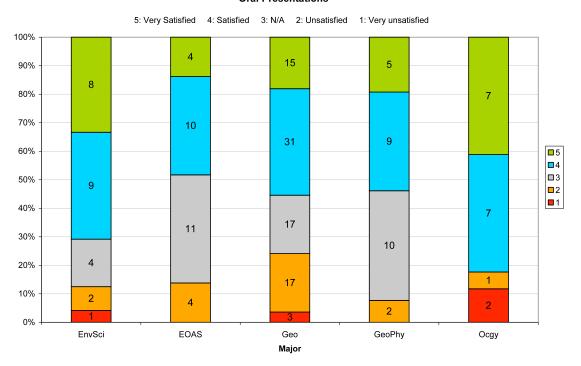
How Satisfied were you acquiring the following skill during your EOAS degree?

Oral Presentations

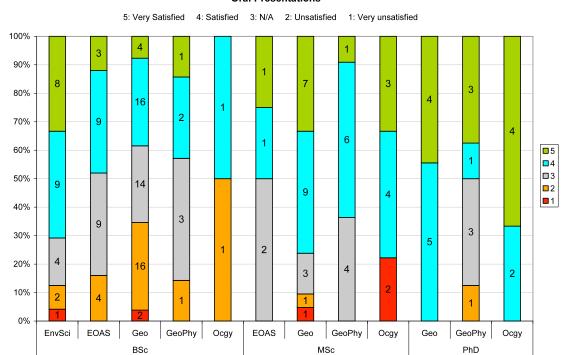


How Satisfied were you acquiring the following skill during your EOAS degree?

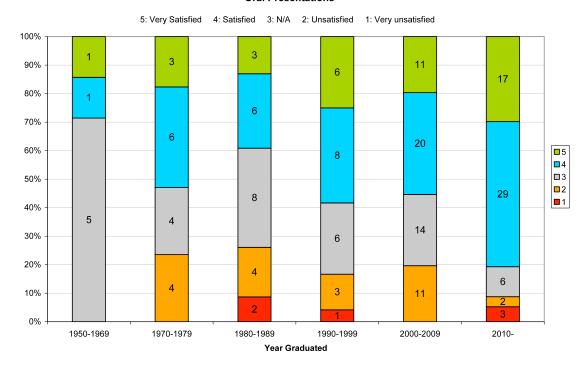
Oral Presentations



How Satisfied were you acquiring the following skill during your EOAS degree? Oral Presentations



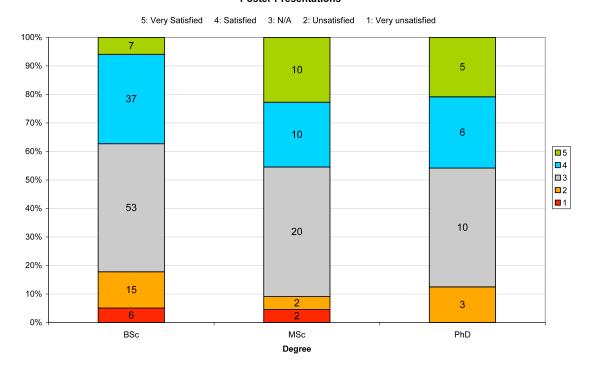
How Satisfied were you acquiring the following skill during your EOAS degree? Oral Presentations



Poster Presentations

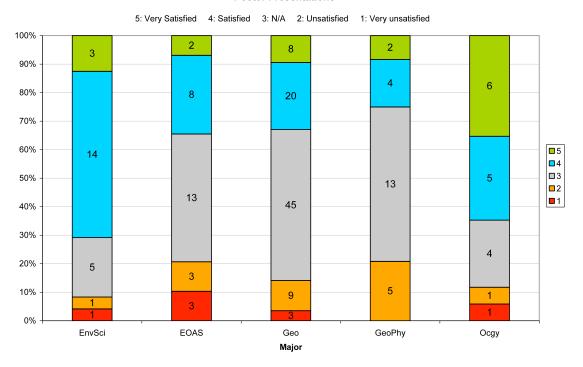
How Satisfied were you acquiring the following skill during your EOAS degree?

Poster Presentations

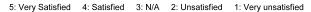


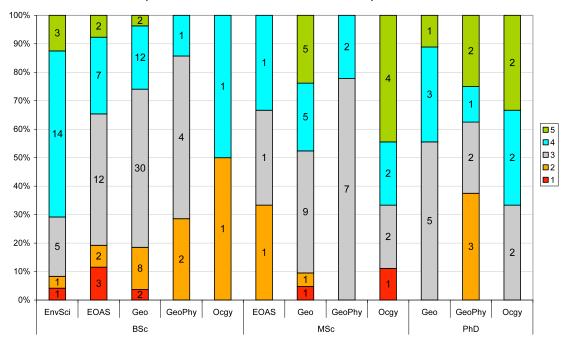
How Satisfied were you acquiring the following skill during your EOAS degree?

Poster Presentations



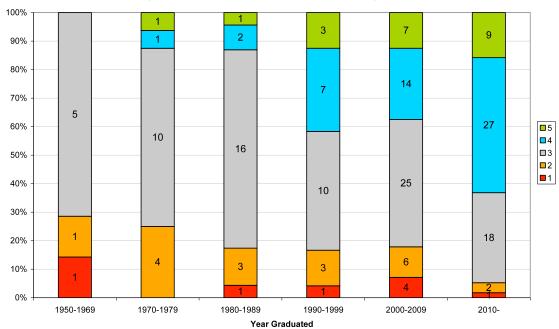
How Satisfied were you acquiring the following skill during your EOAS degree? Poster Presentations





How Satisfied were you acquiring the following skill during your EOAS degree? Poster Presentations

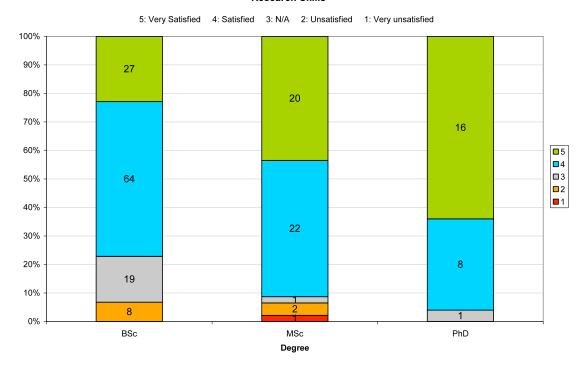
5: Very Satisfied 4: Satisfied 3: N/A 2: Unsatisfied 1: Very unsatisfied



Research Skills

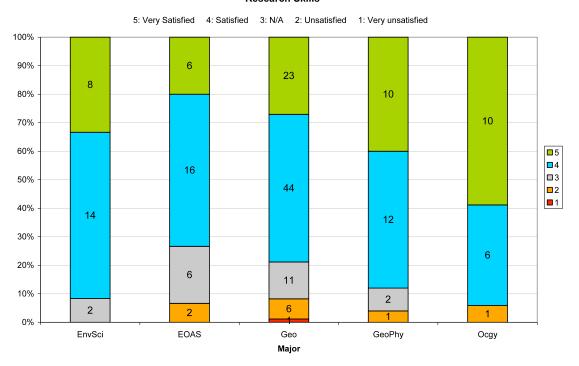
How Satisfied were you acquiring the following skill during your EOAS degree?

Research Skills

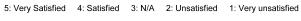


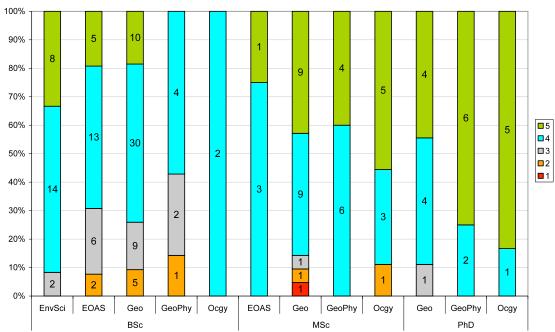
How Satisfied were you acquiring the following skill during your EOAS degree?

Research Skills



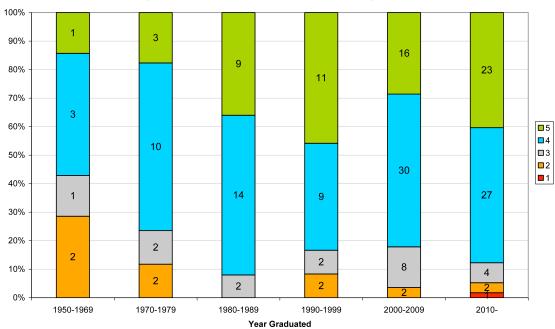
How Satisfied were you acquiring the following skill during your EOAS degree? Research Skills





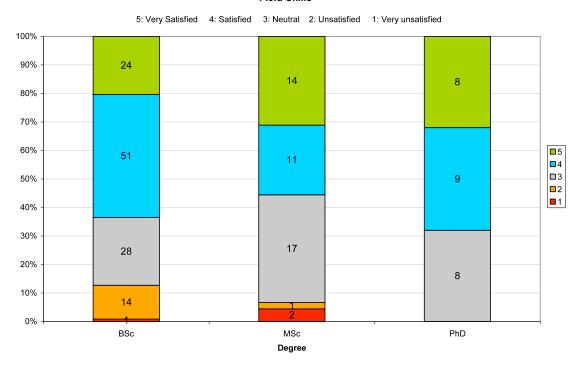
How Satisfied were you acquiring the following skill during your EOAS degree? Research Skills

5: Very Satisfied 4: Satisfied 3: N/A 2: Unsatisfied 1: Very unsatisfied

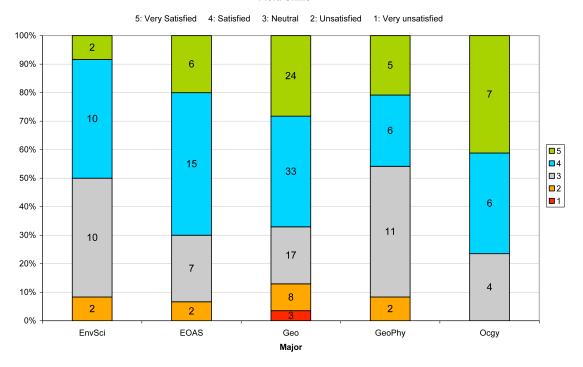


Field Skills

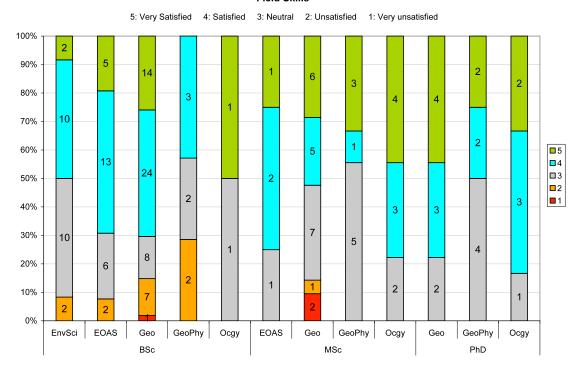
How Satisfied were you acquiring the following skill during your EOAS degree? Field Skills



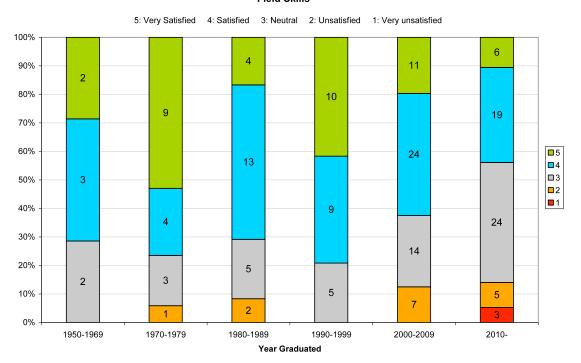
How Satisfied were you acquiring the following skill during your EOAS degree? Field Skills



How Satisfied were you acquiring the following skill during your EOAS degree? Field Skills

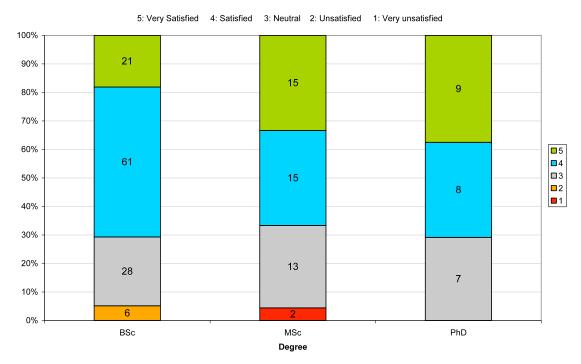


How Satisfied were you acquiring the following skill during your EOAS degree? Field Skills

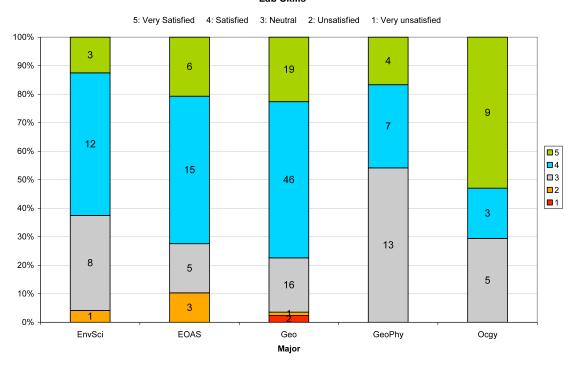


Lab Skills

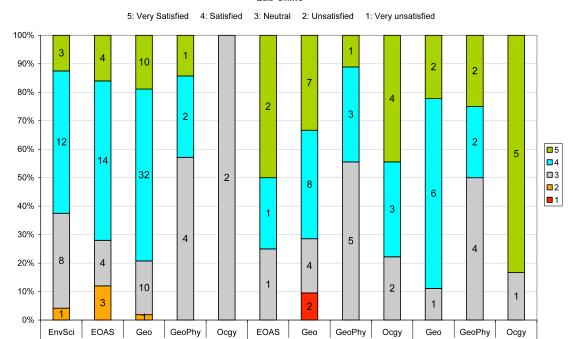
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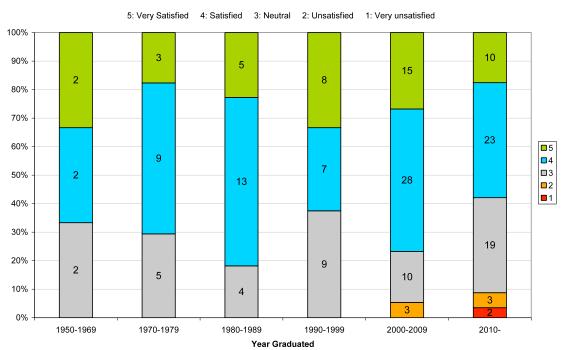


How Satisfied were you acquiring the following skill during your EOAS degree? **Lab Skills**

MSc

PhD

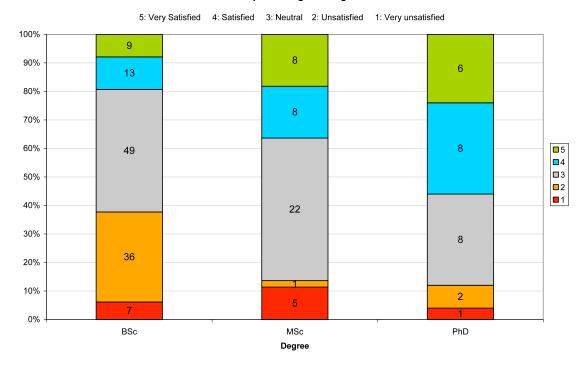
BSc



Computer Programming

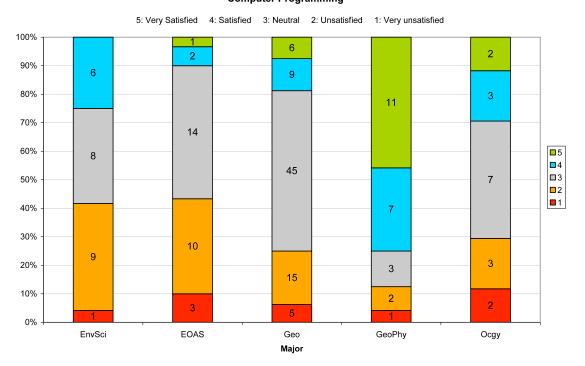
How Satisfied were you acquiring the following skill during your EOAS degree?

Computer Programming

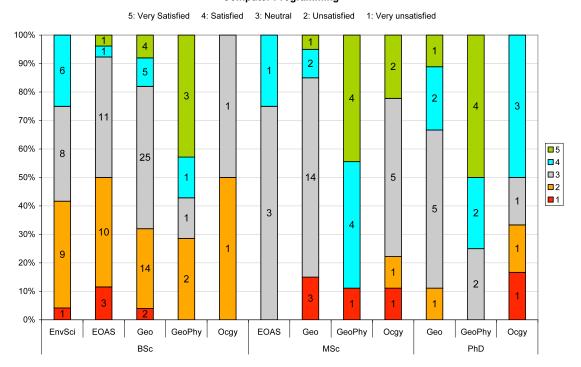


How Satisfied were you acquiring the following skill during your EOAS degree?

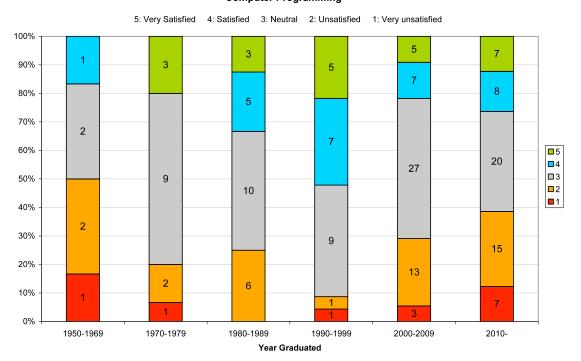
Computer Programming



How Satisfied were you acquiring the following skill during your EOAS degree? Computer Programming



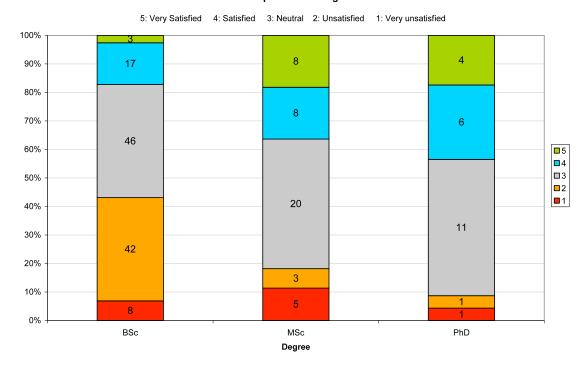
How Satisfied were you acquiring the following skill during your EOAS degree? Computer Programming



Computer Modelling

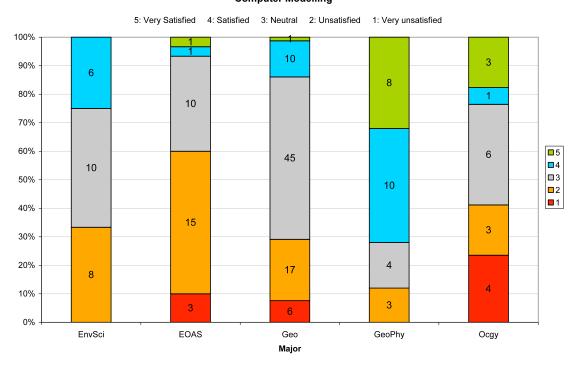
How Satisfied were you acquiring the following skill during your EOAS degree?

Computer Modelling

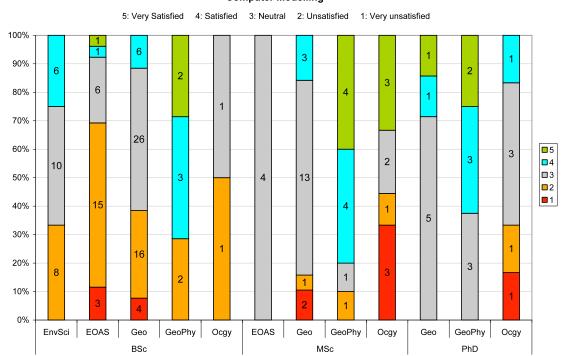


How Satisfied were you acquiring the following skill during your EOAS degree?

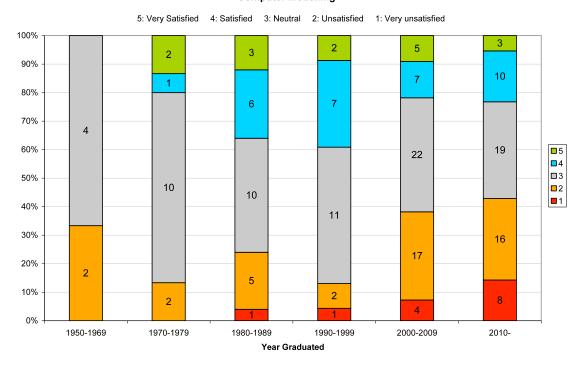
Computer Modelling



How Satisfied were you acquiring the following skill during your EOAS degree? **Computer Modelling**



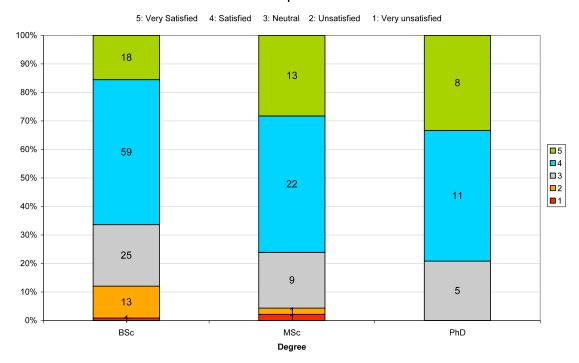
How Satisfied were you acquiring the following skill during your EOAS degree? Computer Modelling



Data Interpretation

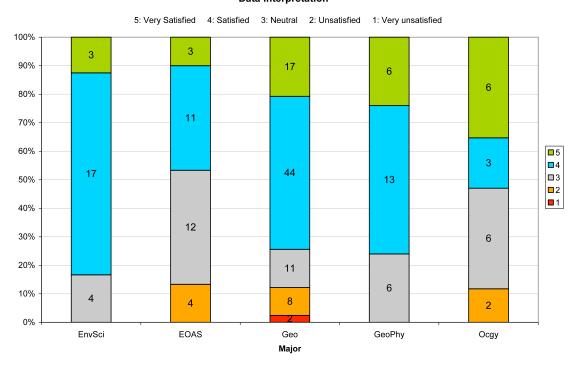
How Satisfied were you acquiring the following skill during your EOAS degree?

Data Interpretation



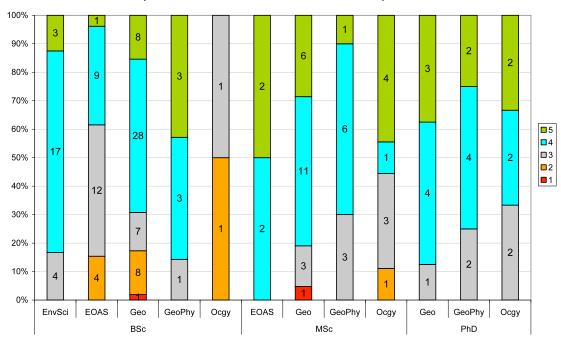
How Satisfied were you acquiring the following skill during your EOAS degree?

Data Interpretation

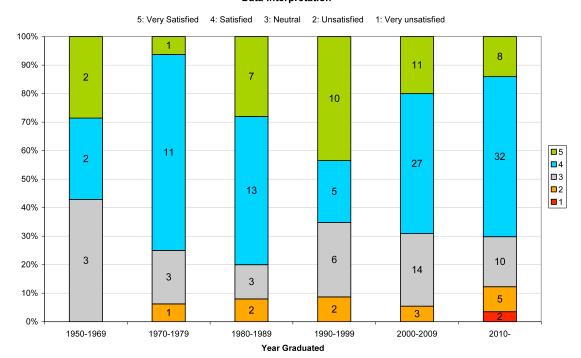


How Satisfied were you acquiring the following skill during your EOAS degree? Data Interpretation



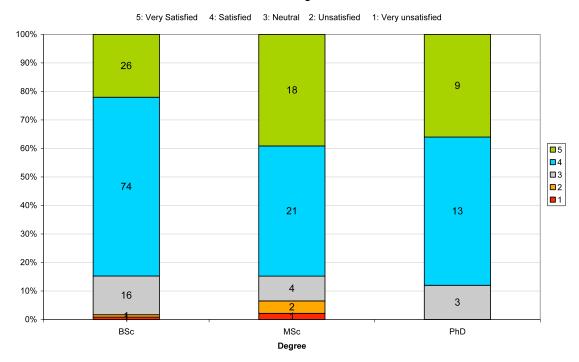


How Satisfied were you acquiring the following skill during your EOAS degree? Data Interpretation

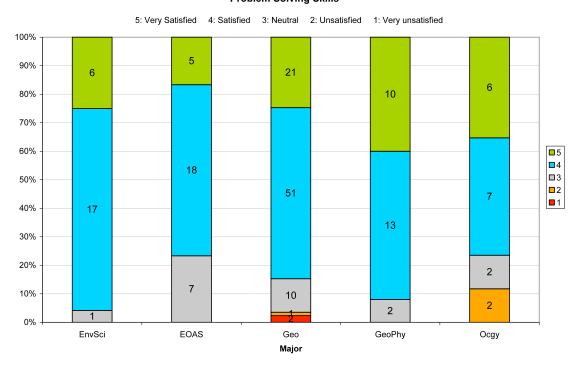


Problem Solving Skills

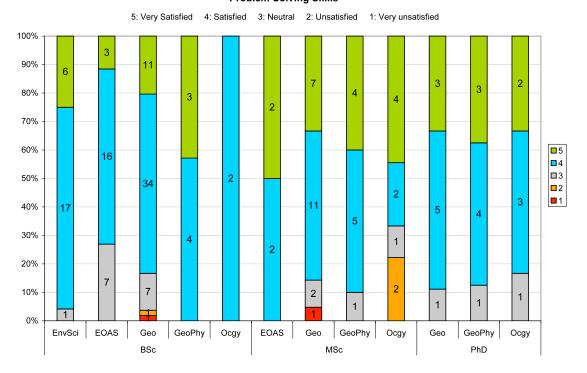
How Satisfied were you acquiring the following skill during your EOAS degree? **Problem Solving Skills**



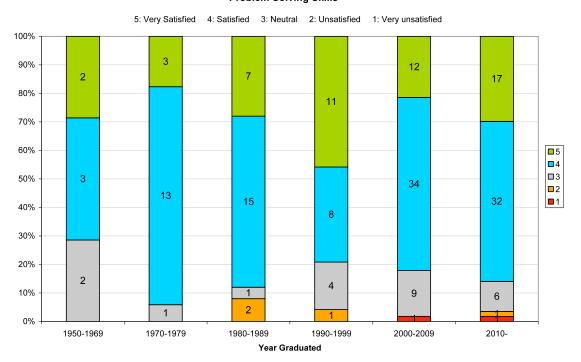
How Satisfied were you acquiring the following skill during your EOAS degree? **Problem Solving Skills**



How Satisfied were you acquiring the following skill during your EOAS degree? **Problem Solving Skills**

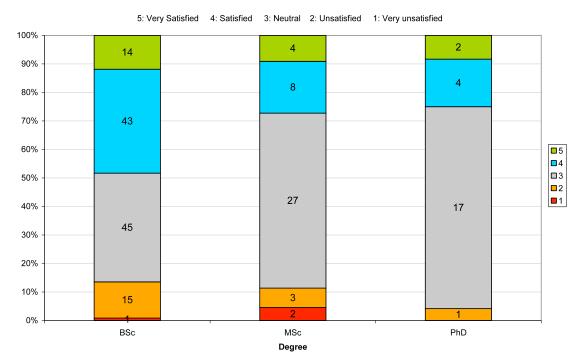


How Satisfied were you acquiring the following skill during your EOAS degree? Problem Solving Skills

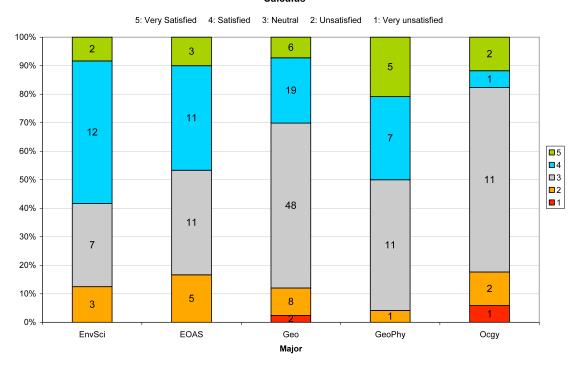


Calculus

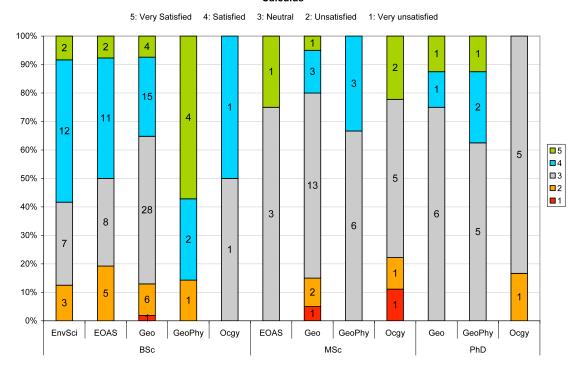
How Satisfied were you acquiring the following skill during your EOAS degree? **Calculus**



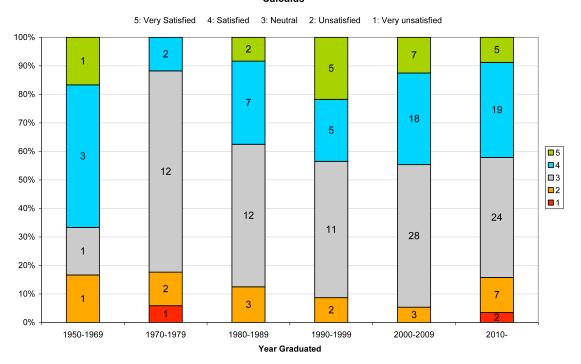
How Satisfied were you acquiring the following skill during your EOAS degree? **Calculus**



How Satisfied were you acquiring the following skill during your EOAS degree? **Calculus**



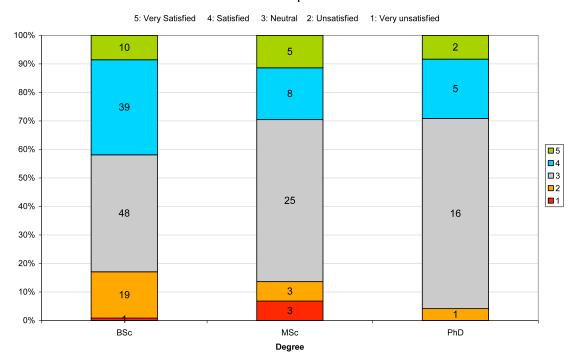
How Satisfied were you acquiring the following skill during your EOAS degree? **Calculus**



Differential Equations

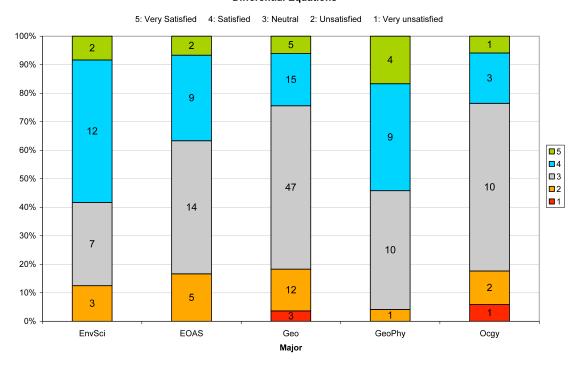
How Satisfied were you acquiring the following skill during your EOAS degree?

Differential Equations

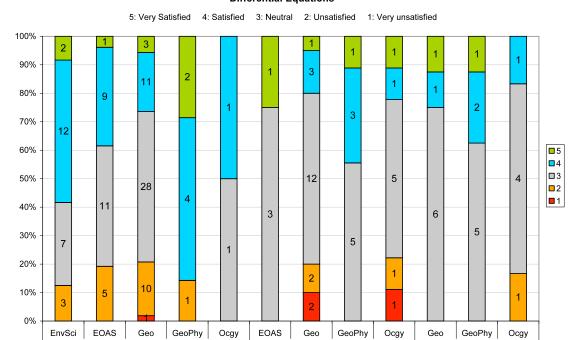


How Satisfied were you acquiring the following skill during your EOAS degree?

Differential Equations



How Satisfied were you acquiring the following skill during your EOAS degree? Differential Equations

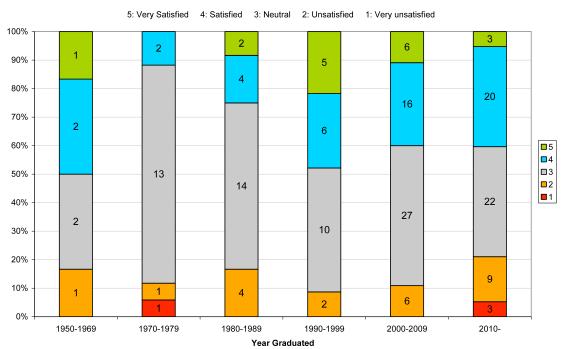


How Satisfied were you acquiring the following skill during your EOAS degree? **Differential Equations**

MSc

PhD

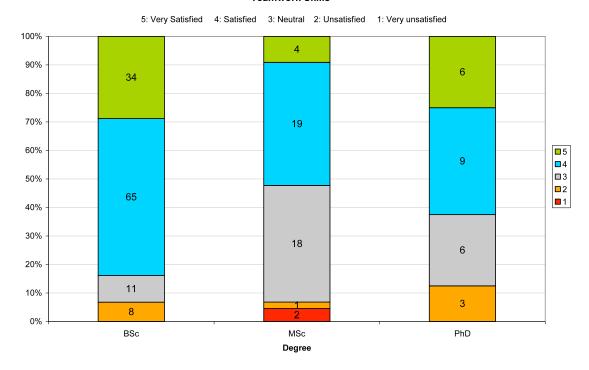
BSc



Teamwork Skills

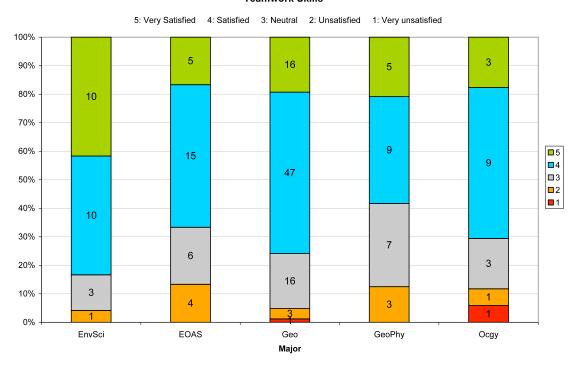
How Satisfied were you acquiring the following skill during your EOAS degree?

Teamwork Skills

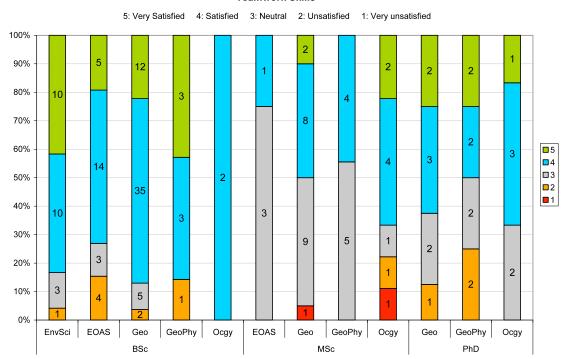


How Satisfied were you acquiring the following skill during your EOAS degree?

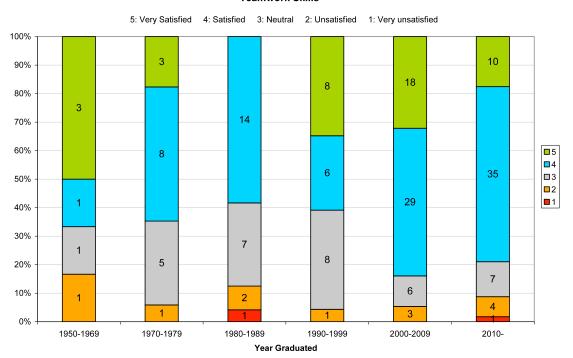
Teamwork Skills



How Satisfied were you acquiring the following skill during your EOAS degree? **Teamwork Skills**



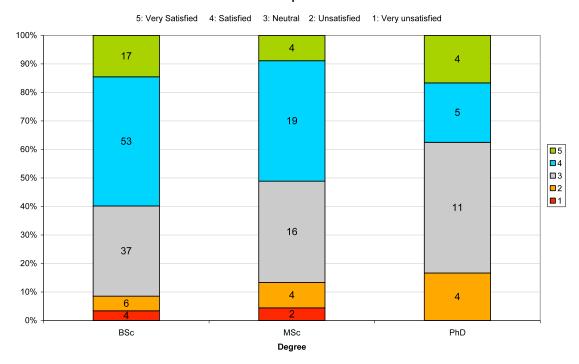
How Satisfied were you acquiring the following skill during your EOAS degree? Teamwork Skills



Leadership Skills

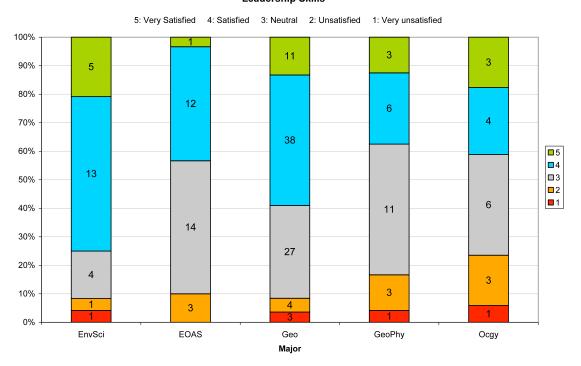
How Satisfied were you acquiring the following skill during your EOAS degree?

Leadership Skills

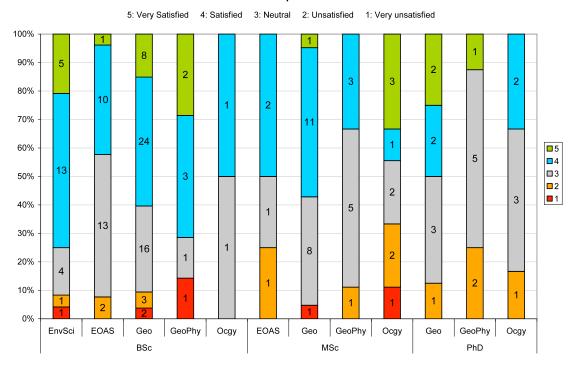


How Satisfied were you acquiring the following skill during your EOAS degree?

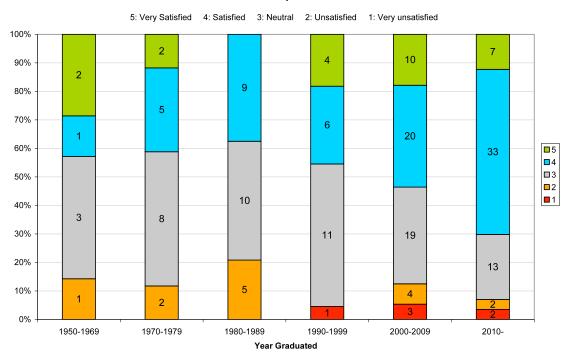
Leadership Skills



How Satisfied were you acquiring the following skill during your EOAS degree? Leadership Skills

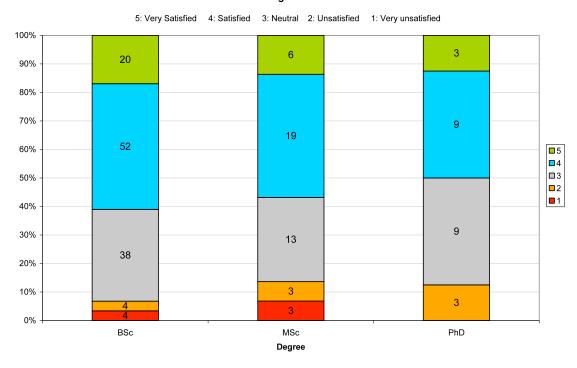


How Satisfied were you acquiring the following skill during your EOAS degree? Leadership Skills



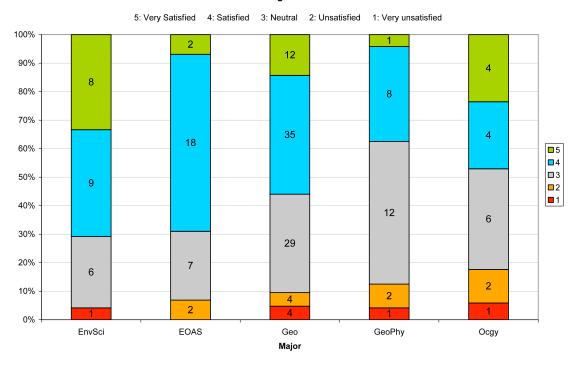
Time Management Skills

How Satisfied were you acquiring the following skill during your EOAS degree? Time Management Skills

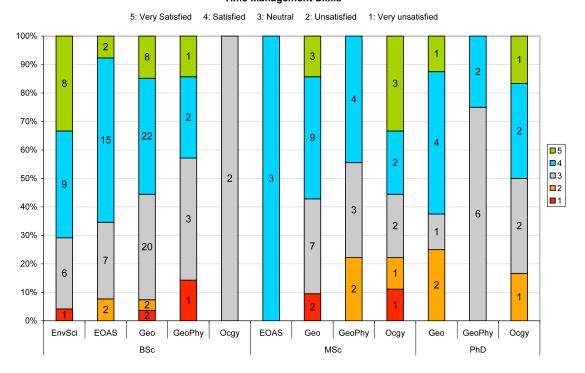


How Satisfied were you acquiring the following skill during your EOAS degree?

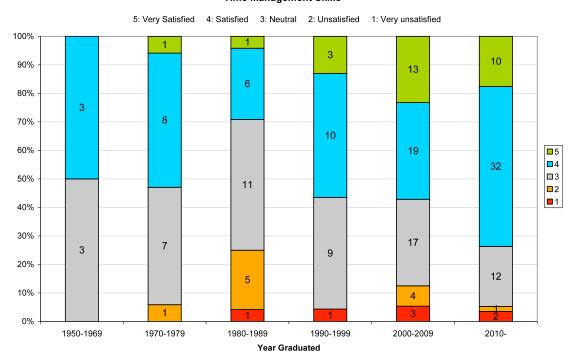
Time Management Skills



How Satisfied were you acquiring the following skill during your EOAS degree? **Time Management Skills**



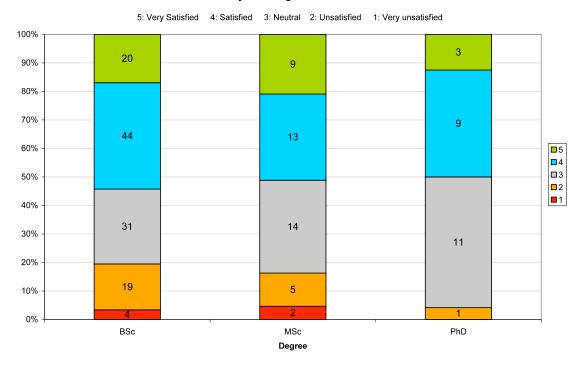
How Satisfied were you acquiring the following skill during your EOAS degree? Time Management Skills



Project Management skills

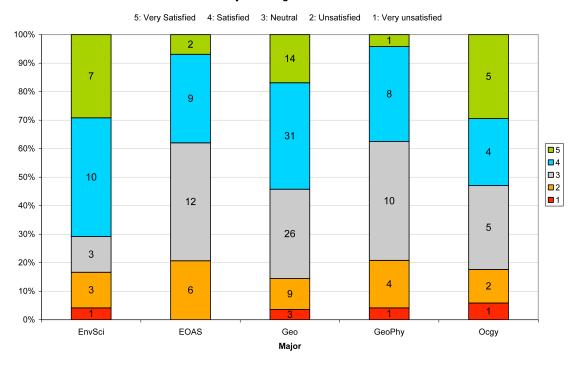
How Satisfied were you acquiring the following skill during your EOAS degree?

Project Management Skills

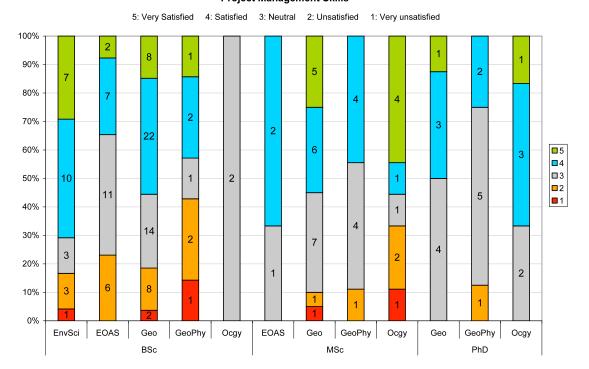


How Satisfied were you acquiring the following skill during your EOAS degree?

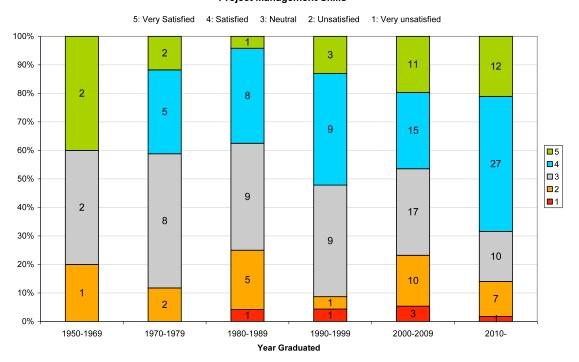
Project Management Skills



How Satisfied were you acquiring the following skill during your EOAS degree? Project Management Skills



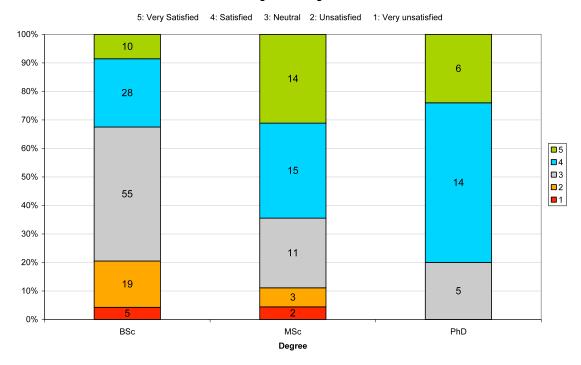
How Satisfied were you acquiring the following skill during your EOAS degree? Project Management Skills



Teaching and Tutoring Skills

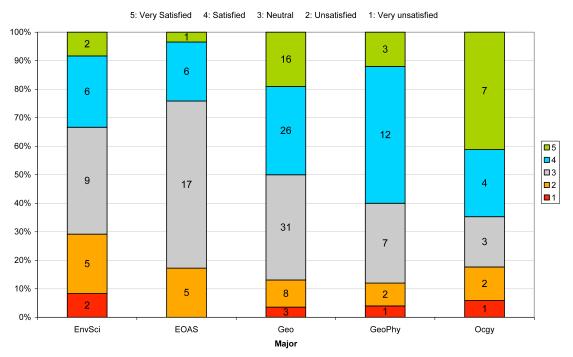
How Satisfied were you acquiring the following skill during your EOAS degree?

Teaching or Tutoring Skills

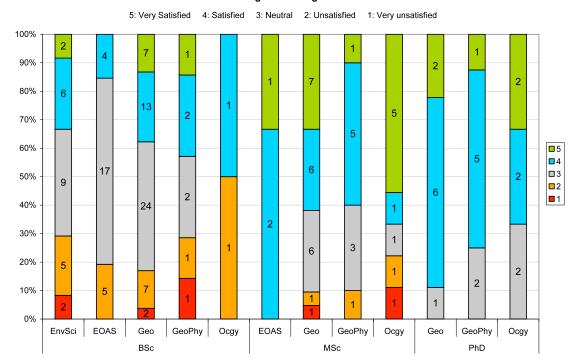


How Satisfied were you acquiring the following skill during your EOAS degree?

Teaching or Tutoring Skills



How Satisfied were you acquiring the following skill during your EOAS degree? Teaching or Tutoring Skills



How Satisfied were you acquiring the following skill during your EOAS degree? Teaching or Tutoring Skills

