EEMB DEI Report - 2022/23

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Contents

oad Data	2
ummarize responses	8
who took the survey	. 8
lots	11
Discussing general DEI issues	. 12
Personally feel well supported	. 16
Issues with representation	
Extent graduate students supported	. 22
Reporting discrimination	. 25
Well-being factors	. 28
Strengths and weaknesses	
Financial well-being	
TAing experiences	

Load Data

These are the questions to be analyzed after omiting long responses (eg what "Other" means, "define diversity") and demographic information.

```
## questions in a useable format
  questions <- read_csv("eemb_dei_colrename.csv") %>%
    unite("newcolnames", c(colnames, category), sep = ":", na.rm=T, remove=F)
  ## these are the questions to be analyzed
  questions %>%
    filter(!str_detect(newcolnames, "longanswer"),
           # !str_detect(newcolnames, "demograph"),
            !str_detect(newcolnames, "other"),
            !str_detect(newcolnames, "confirm")) %>%
    select(question)
# A tibble: 104 x 1
   question
   <chr>>
 1 How comfortable do you feel discussing about general DEI issues with: - Frie~
 2 How comfortable do you feel discussing about general DEI issues with: - Fami~
 3 How comfortable do you feel discussing about general DEI issues with: - peer~
 4 How comfortable do you feel discussing about general DEI issues with: - juni~
 5 How comfortable do you feel discussing about general DEI issues with: - seni~
 6 How comfortable do you feel discussing about general DEI issues with: - advi~
 7 How comfortable do you feel discussing about general DEI issues with: - non-~
 8 How comfortable do you feel discussing about general DEI issues with: - EEMB~
 9 How comfortable do you feel discussing about general DEI issues with: - Anon~
10 Do you personally feel well supported - academically by the department
# i 94 more rows
```

In the dataset analyzed the shorter names for the questions are as follows after removing extra text:

```
(questions.short <- questions %>%
    filter(!str_detect(newcolnames, "longanswer"),
           # !str detect(newcolnames, "demograph"),
            !str detect(newcolnames, "other"),
            !str_detect(newcolnames, "eemb_support"),
            !str_detect(newcolnames, "confirm")) %>%
     mutate(across(everything(), ~ str_replace_all(., "well-being", "wellbeing"))) %>%
     separate(question, c("question", NA), sep = "\\?") %>%
     separate(question, c("question", NA), sep = "-") %>%
    select(question, colnames) %>%
     mutate(question = str_remove_all(question, "\nUnderrepresented background: belonging t
            question = str_remove_all(question, "(financially, mentally, emotionally, acade
            question = str_remove_all(question, "Please identify how available support is f
            question = str_remove_all(question, "(We are primarily interested in TA experie
            question = str_remove_all(question, "(Science by the Pint, Happy Hour, Tea Time
            question = str remove all(question, "\\("),
            question = str_remove_all(question, "\\)")) %>%
    distinct())
Warning: Expected 2 pieces. Missing pieces filled with `NA` in 51 rows [1, 2, 3, 4, 5,
6, 7, 8, 9, 10, 11, 12, 29, 30, 31, 32, 33, 34, 35, 37, \ldots
Warning: Expected 2 pieces. Additional pieces discarded in 5 rows [7, 37, 39,
40, 55].
Warning: Expected 2 pieces. Missing pieces filled with `NA` in 56 rows [13, 14, 15, 16,
17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 64, 65, 66, \ldots
# A tibble: 24 x 2
   question
                                                                         colnames
                                                                         <chr>
 1 "How comfortable do you feel discussing about general DEI issues wi~ dei_con~
 2 "Do you personally feel well supported "
                                                                         persona~
 3 "Do you think any of the following are issues in the EEMB departmen~ eemb_is~
 4 "To what extent do you feel that graduate students from the followi~ group_s~
 5 "I know what resources are available to me if I am discriminated ag~ discrim~
 6 "I feel comfortable using these resources and/or reporting acts of ~ discrim~
7 "How often do you think the department should hold department"
 8 "There are many factors that can have an effect on someone's wellbe~ factors
 9 "We would like to identify EEMB's strengths and weaknesses in suppo~ eemb_st~
10 "Please use the scale below to help us understand the state of your~ finances
# i 14 more rows
```

Load the survey data and assign levels to all of the multilevel responses

```
## raw survey
 raw <- read_csv("EEMB Grad Student Climate Survey.csv", skip = 1) %>%
 mc <- raw
 colnames(mc) <- questions$newcolnames</pre>
 mc <- mc %>%
   select(-contains("longanswer"),
          # -contains("demographic"),
          -contains("other"),
          -contains("eemb_support"),
          -confirm)
 colnames(mc)
 [1] "dei_conversations:Friends"
 [2] "dei_conversations:Family members"
 [3] "dei_conversations:peer EEMB graduate students"
 [4] "dei_conversations:junior EEMB graduate students"
 [5] "dei_conversations:senior EEMB graduate students"
 [6] "dei_conversations:advising faculty"
 [7] "dei_conversations:non-advising EEMB faculty"
 [8] "dei_conversations:EEMB staff"
 [9] "dei_conversations: Anonymous bias reporting on the EEMB DEI website"
[10] "personally_supported:academically by the department"
[11] "personally_supported:financially by the department"
[12] "personally_supported:mentally and emotionally by the department"
[13] "eemb_issues:Lack of graduate students from underrepresented backgrounds"
[14] "eemb_issues:Bias against graduate students from underrepresented backgrounds"
[15] "eemb_issues:General lack of support for graduate students from underrepresented backs
[16] "eemb_issues:Lack of invited speakers from underrepresented backgrounds"
[17] "eemb_issues:Lack of faculty from underrepresented backgrounds"
[18] "group_supported:All graduate students"
[19] "group_supported:First-generation college"
[20] "group_supported:First-generation graduate"
[21] "group_supported:Socioeconomically disadvantaged"
[22] "group_supported:Underrepresented cultural backgrounds"
[23] "group_supported:Underrepresented ethnicities"
[24] "group_supported:International (non-American)"
[25] "group_supported:Underrepresented gender identities"
[26] "group_supported:Underrepresented sexualities"
[27] "group_supported:Physical disabilities"
[28] "group_supported:Neurodivergent"
[29] "discrimination_resources"
[30] "discrimination_reporting:Talking to my advisor"
```

- [31] "discrimination_reporting: Talking to the EEMB Chair"
- [32] "discrimination_reporting:Talking to the Grad Affairs Chair"
- [33] "discrimination_reporting:Talking to a committee member"
- [34] "discrimination_reporting:Reporting to the EEMB anonymous feedback site"
- [35] "discrimination_reporting:Reporting outside of EEMB"
- [36] "eemb_dei_meeting_frequency"
- [37] "factors:Non-academic support from research advisors, including committee advisors"
- [38] "factors: Academic support from peers"
- [39] "factors:Non-academic support from peers"
- [40] "factors: Approachability of non-advising faculty"
- [41] "factors: Approachability of department staff"
- [42] "factors: Sense of department camaraderie"
- [43] "factors:Mentorship opportunities"
- [44] "factors:Spirituality/religion"
- [45] "factors:Social life"
- [46] "factors:Family life"
- [47] "factors: Spending time outdoors"
- [48] "eemb_strengths_weaknesses:Mental Health"
- [49] "eemb_strengths_weaknesses:Physical Health"
- [50] "eemb_strengths_weaknesses:Physical Safety"
- [51] "eemb_strengths_weaknesses:Food security"
- [52] "eemb_strengths_weaknesses:Financial security"
- [53] "eemb_strengths_weaknesses:Sense of department camaraderie"
- [54] "eemb_strengths_weaknesses:Academic support from research advisors, including committee
- [55] "eemb_strengths_weaknesses:Approachability of non-advising faculty"
- [56] "eemb_strengths_weaknesses:Approachability of department staff"
- [57] "eemb_strengths_weaknesses:Mentorship opportunities"
- [58] "eemb_strengths_weaknesses:Spirituality/religion"
- [59] "eemb_strengths_weaknesses:Social life"
- [60] "eemb_strengths_weaknesses:Family life"
- [61] "eemb_strengths_weaknesses:Spending time outdoors"
- [62] "finances:Monthly salary (\$, current spring quarter 2023)"
- [63] "finances: Monthly cost of living currently (\$, rent, food, gas, internet, dependency of the cost of living currently (\$).
- [64] "monthly_bills"
- [65] "financially_supported:Teaching assistantship"
- [66] "financially_supported:Summer block grant"
- [67] "financially_supported:Graduate student research assistantship"
- [68] "financially_supported:Conference travel"
- [69] "financially_supported:Research support for research project"
- [70] "financially_supported:Emergency support"
- [71] "financially_supported:Research support for objects or consummables that may be person
- [72] "financially_supported:Mentoring students"
- [73] "financially_supported:Service work provided to the department (organizing seminars,
- [74] "eemb_ta:Time dedicated to TA'ing is reasonable and assigned tasks can be accomplished
- [75] "eemb_ta:TAs are not expected to carry out tasks outside the scope of their contracts
- [76] "eemb_ta:There is sufficient training given to graduate students to learn how to TA."

```
[77] "eemb_ta:TA stress levels are comparable or less to that of graduate students on GSR of
[78] "eemb_ta: Even though I have wanted to say 'no', I have felt pressured to take on extra
[79] "eemb_ta:There is reasonable support from the professors I TA for"
[80] "eemb_ta: I have been confident in my knowledge of the material in the courses to which
 [81] "social:frequency"
[82] "social:type"
[83] "social:climate"
[84] "demographic"
[85] "demographic_years_grad"
[86] "demographic_gender"
[87] "demographic_sexual_orientation"
[88] "demographic_ethnicity"
[89] "demographic_religious"
[90] "demographic hide some"
[91] "eemb_prioritize: Equity and transparency for financial support"
[92] "eemb_prioritize:Departmental climate (inclusivity and wellbeing)"
[93] "eemb_prioritize:Departmental transparency"
[94] "eemb_prioritize:Faculty advising"
[95] "eemb_prioritize:Professional skills development (e.g., stat courses)"
[96] "eemb_prioritize:Program requirements (e.g., oral exam structure)"
[97] "eemb_prioritize:Teaching assistant assignments or GSR work load"
[98] "eemb_prioritize:Faculty diversity (e.g., recruitment and retention)"
[99] "eemb_prioritize:Graduate student diversity (e.g., recruitment and retention)"
[100] "eemb_prioritize:Undergraduate student diversity (e.g., recruitment and retention)"
[101] "eemb_prioritize:Staff diversity (e.g., recruitment and retention)"
[102] "eemb_prioritize:Research associate diversity (e.g., recruitment and retention)"
  ## add levels to scaled questions
  mc %% select(contains("eemb_prior")) %>% pivot_longer(everything()) %>% pull(value) %>%
[1] 6 2 3 1 4 5 7 8 9 10 12 11 NA
  mc <- mc %>%
    mutate(across(c(contains("dei_conversations"),
                    contains("discrimination reporting")), ~factor(., levels = c("Very unco
                                                                        "Somewhat uncomforta
                                                                        "Neither comfortable
                                                                        "Somewhat comfortabl
                                                                        "Extremely comfortab
                                                                        "Unsure"))),
           across(c(contains("personally_supported"),
                    contains("eemb_ta")), ~ factor(., levels = c("Strongly disagree",
                                                                            "Somewhat disagr
                                                                            "Neither agree r
```

```
"Somewhat agree"
                                                                 "Strongly agree"
across(contains("eemb_issues"), ~ factor(., levels = c("No", "Somewhat", "Yes",
across(contains("group"), ~factor(., levels = c("No support", "Minimal support",
eemb_dei_meeting_frequency = factor(eemb_dei_meeting_frequency, levels = c("Ever
                                                                             "Once
                                                                            "Twic
                                                                            "Once
across(contains("factors"), ~ factor(., levels = c("Not at all important", "Most
across(contains("eemb_strengths"), ~ factor(., levels = c("Critically lacking",
                                             "Somewhat lacking",
                                             "Somewhat available",
                                             "Readily available",
                                             "Unsure"))),
across(contains("financially_supported"), ~ factor(., levels = c("Poor",
                                                                  "Adequate",
                                                                  "Fair",
                                                                  "Good",
                                                                  "Great"))),
across(c(`social:type`, `social:climate`), ~factor(`social:type`, levels = c("Ex
                                                  "Somewhat dissatisfied",
                                                  "Neither satisfied nor dissatis
                                                  "Somewhat satisfied",
                                                  "Extremely satisfied"))))
```

Summarize responses

who took the survey

```
nrow(mc)
[1] 23
  mc %>% count(demographic_years_grad)
# A tibble: 5 x 2
 demographic_years_grad
1 1 year
2 2-3 years
3 4-5 years
                        10
4 More than 5 years
5 <NA>
  mc %>% count(demographic_gender)
# A tibble: 4 x 2
 demographic_gender n
          <int>
 <chr>
1 Cis Female
2 Cis Male
                     6
3 Gender queer
                     1
4 <NA>
  mc %>% count(demographic_sexual_orientation)
# A tibble: 6 x 2
 demographic_sexual_orientation
                              <int>
```

```
2 Bisexual, Queer
                                                                                                              2
3 Heterosexual/straight
                                                                                                           16
4 Prefer not to say
                                                                                                              1
5 Queer
                                                                                                              2
6 <NA>
                                                                                                              1
       mc %>% count(demographic_ethnicity)
# A tibble: 4 x 2
     demographic_ethnicity
                                                                                            n
      <chr>
                                                                                 <int>
1 Asian
                                                                                            2
2 Asian, White or Caucasian
                                                                                            1
3 White or Caucasian
                                                                                          18
4 <NA>
                                                                                            2
       mc %>% count(demographic_religious) # other open response said culturally ---> group with
# A tibble: 7 x 2
      demographic_religious
                                                                                                                                                              n
      <chr>
                                                                                                                                                  <int>
1 Atheist
                                                                                                                                                              5
                                                                                                                                                              7
2 Non-religious/secular
3 Non-religious/secular, Spiritual, not religious
                                                                                                                                                              1
                                                                                                                                                              1
                                                                                                                                                              1
5 Religious
6 Spiritual, not religious
                                                                                                                                                              6
7 <NA>
                                                                                                                                                              2
        ## aggregate
       mc \leftarrow mc \%
             mutate(demographic_years_grad = case_when(demographic_years_grad == "More than 5 years'
                                                                                                                                           TRUE ~ demographic_years_grad),
                                   demographic_sexual_orientation = case_when(demographic_sexual_orientation %in% c
                                                                                                                                                                   demographic_sexual_orientation %in% or
                                                                                                                                                                   demographic_sexual_orientation == "Pr
                                                                                                                                                                   TRUE ~ demographic_sexual_orientation
                                                                                                                                                                   ),
                                   demographic_ethnicity = case_when(demographic_ethnicity %in% c("Asian", "Asian, Western the control of the
                                                                                                                                        demographic_ethnicity %in% c("White or Caucasi
                                                                                                                                        TRUE ~ demographic_ethnicity),
```

1

1 Bisexual

```
demographic_religious = case_when(demographic_religious %in% c("Non-religious/se
                                               demographic_religious %in% c("Other",
                                              TRUE ~ demographic_religious))
  mc %>% count(demographic_sexual_orientation)
# A tibble: 3 x 2
 demographic_sexual_orientation
                                     n
 <chr>
                                 <int>
1 Heterosexual
                                     16
2 LGBTQIA+
                                     5
3 <NA>
                                      2
  mc %>% count(demographic_ethnicity)
# A tibble: 3 x 2
 demographic_ethnicity
                            n
  <chr>
                        <int>
1 POC
                            3
2 White
                           18
3 <NA>
                            2
  mc %>% count(demographic_religious)
# A tibble: 3 x 2
 demographic_religious
                            n
  <chr>
                        <int>
1 Nonreligious
                           19
2 Religious
                            2
3 <NA>
                            2
```

"Atheist", #QUEST "Non-religious/se "Spiritual, not r

"Religious") ~ "F

Plots

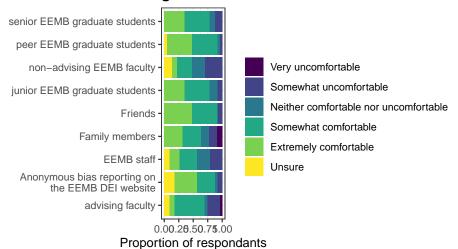
```
## plotting function
plot_fun <- function(question){</pre>
 plot_title = questions.short$question[which(questions.short$colnames == question)]
 plot_title = str_wrap(plot_title, width = 50)
 mc %>%
   select(contains(question)) %>%
   pivot_longer(everything()) %>%
   mutate(name = str_remove_all(name, paste0(question, ":")),
           name = str_wrap(name, width=30)) %>%
    drop_na() %>%
   ggplot()+
    geom_bar(aes(y = name, fill = value),
             position = "fill")+
    labs(title = plot_title,
         x = "Proportion of respondants",
         fill = NULL) +
    scale_fill_viridis_d()
}
# plot_fun(questions.short$colnames[1])
## plotting function
plot_facet_fun <- function(question, facet_var){</pre>
 plot_title = questions.short$question[which(questions.short$colnames == question)]
 plot_title = str_wrap(plot_title, width = 50)
 mc %>%
   select(contains(question), any_of(facet_var)) %>%
   drop_na() %>%
   pivot_longer(contains(question)) %>%
```

```
mutate(name = str_remove_all(name, paste0(question, ":")),
          name = str_wrap(name, width=30)) %>%
    ggplot()+
    geom_bar(aes(y = name, fill = value),
             position = "stack")+
    labs(title = plot_title,
        fill = NULL,
         x = "Number of respondants") +
    facet_grid(cols = vars(.data[[facet_var]]), space="free", scales = "free", labeller =
    scale_x_continuous(breaks = scales::breaks_extended(2)) +
    scale_fill_viridis_d()
}
# plot_facet_fun(questions.short$colnames[1], "demographic_gender")
toplot <- questions.short %>%
  filter(!colnames %in% c("finances", "monthly_bills", "eemb_prioritize", "eemb_dei_meeti
demographic.cats <- c("demographic_years_grad", "demographic_gender", "demographic_sexual
```

Discussing general DEI issues

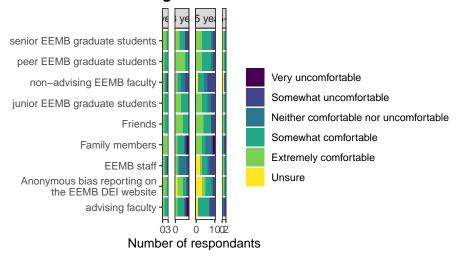
```
plot_fun(toplot$colnames[1])
```

How comfortable do you feel discussing a general DEI issues with:

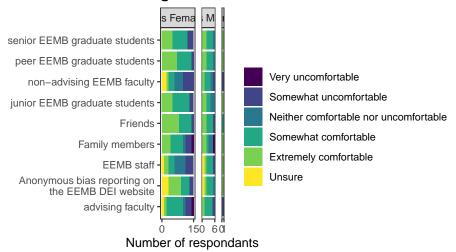


```
for (i in 1:length(demographic.cats)) {
   print(
   plot_facet_fun(toplot$colnames[1], demographic.cats[i])
   )
}
```

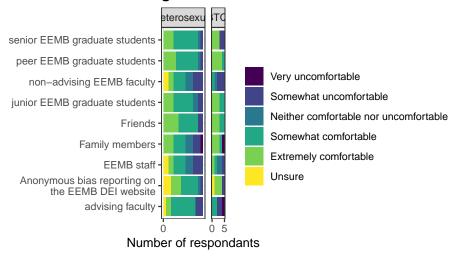
How comfortable do you feel discussing a general DEI issues with:



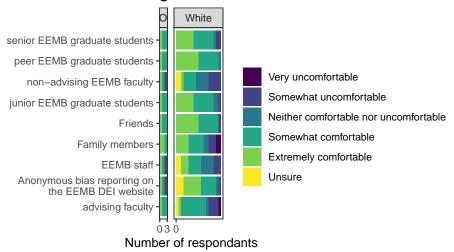
How comfortable do you feel discussing a general DEI issues with:



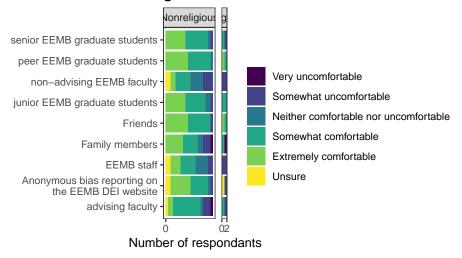
How comfortable do you feel discussing a general DEI issues with:



How comfortable do you feel discussing a general DEI issues with:



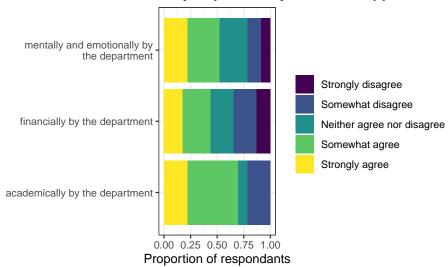
How comfortable do you feel discussing a general DEI issues with:



Personally feel well supported

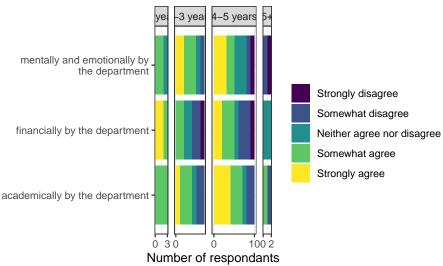
```
plot_fun(toplot$colnames[2])
```

Do you personally feel well supported

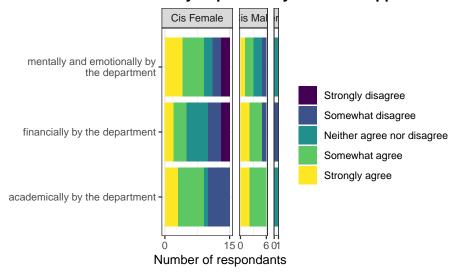


```
for (i in 1:length(demographic.cats)) {
  print(
  plot_facet_fun(toplot$colnames[2], demographic.cats[i])
  )
}
```

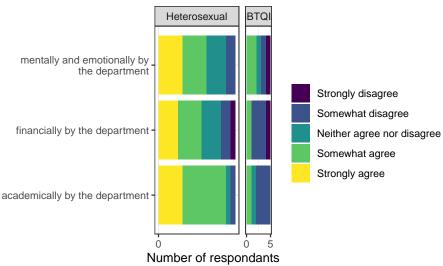
Do you personally feel well supported



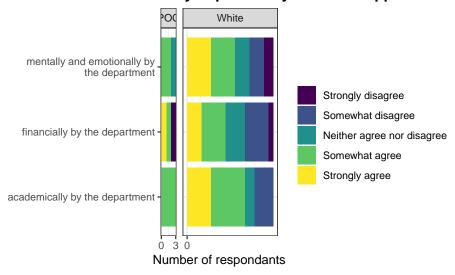
Do you personally feel well supported



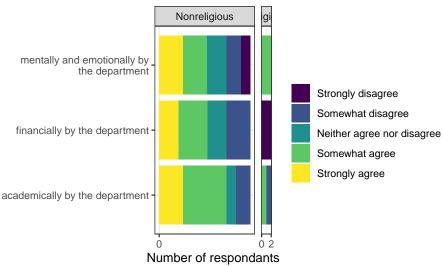
Do you personally feel well supported



Do you personally feel well supported



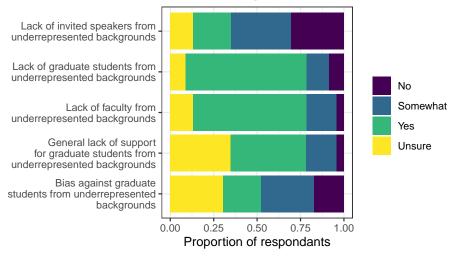
Do you personally feel well supported



Issues with representation

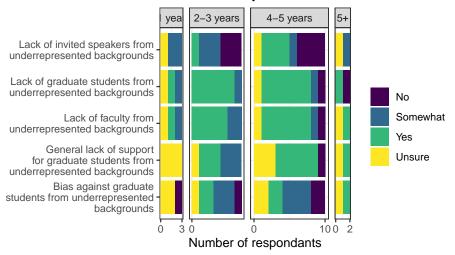
plot_fun(toplot\$colnames[3])

Do you think any of the following are issue the EEMB department

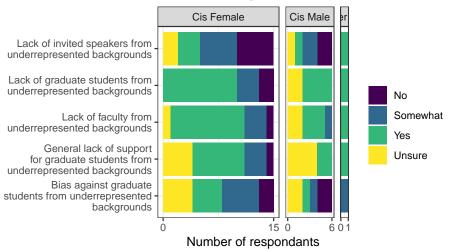


```
for (i in 1:length(demographic.cats)) {
  print(
  plot_facet_fun(toplot$colnames[3], demographic.cats[i])
  )
}
```

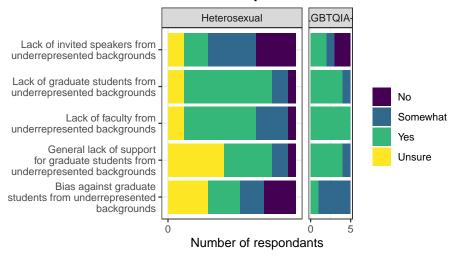
Do you think any of the following are issue the EEMB department



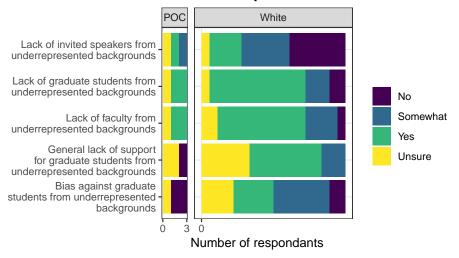
Do you think any of the following are issue the EEMB department



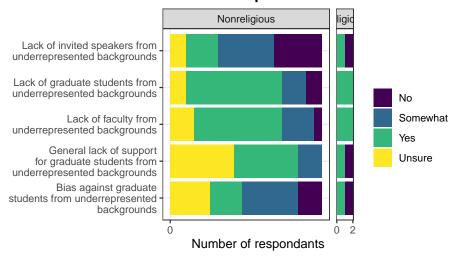
Do you think any of the following are issue the EEMB department



Do you think any of the following are issue the EEMB department



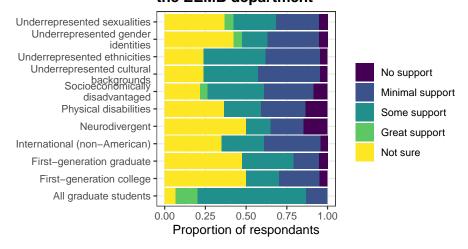
Do you think any of the following are issue the EEMB department



Extent graduate students supported

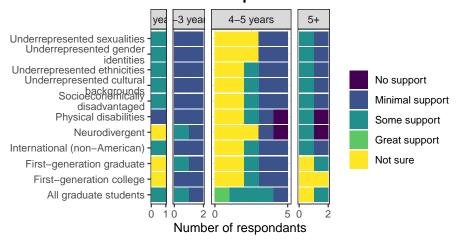
plot_fun(toplot\$colnames[4])

To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department

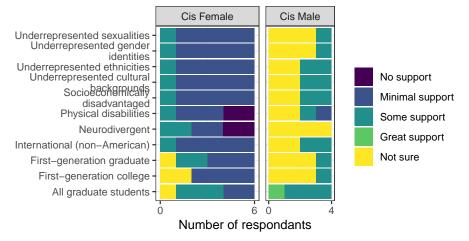


```
for (i in 1:length(demographic.cats)) {
  print(
  plot_facet_fun(toplot$colnames[4], demographic.cats[i])
  )
}
```

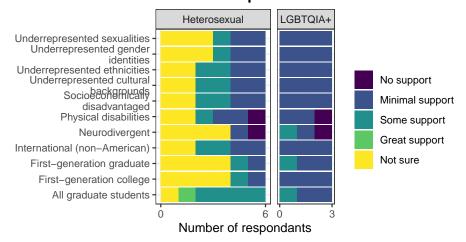
To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department



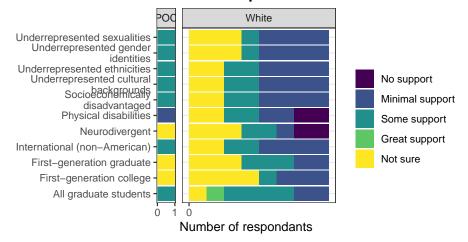
To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department



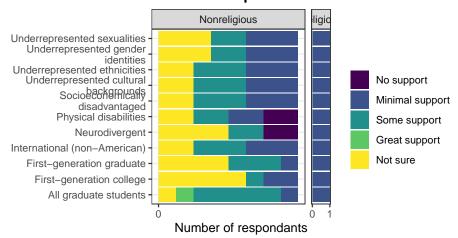
To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department



To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department



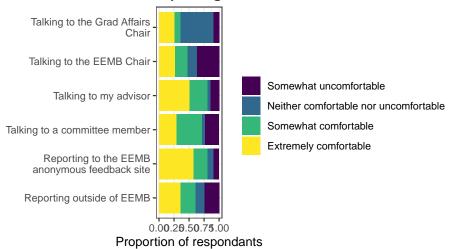
To what extent do you feel that graduate stu from the following groups are well supporte the EEMB department



Reporting discrimination

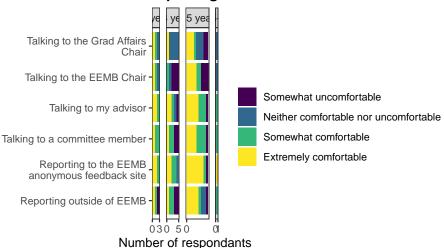
plot_fun(toplot\$colnames[5])

I feel comfortable using these resources a reporting acts of discrimination.

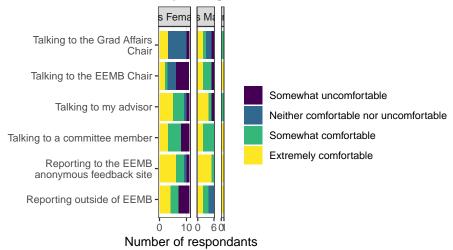


```
for (i in 1:length(demographic.cats)) {
   print(
   plot_facet_fun(toplot$colnames[5], demographic.cats[i])
   )
}
```

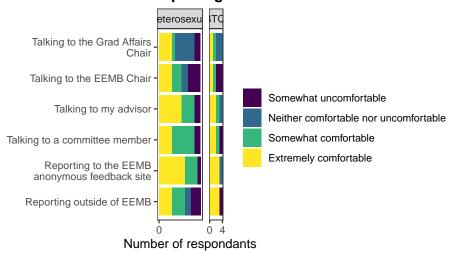
I feel comfortable using these resources a reporting acts of discrimination.



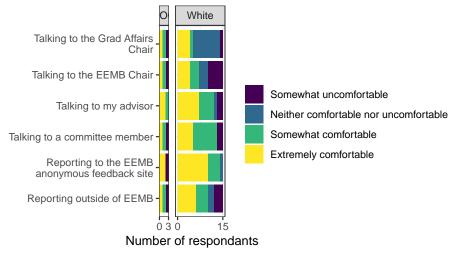
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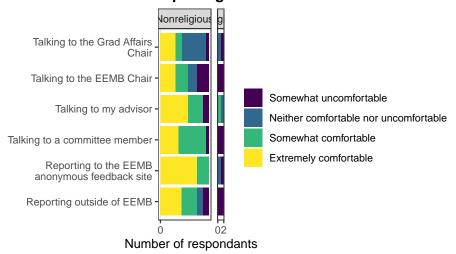
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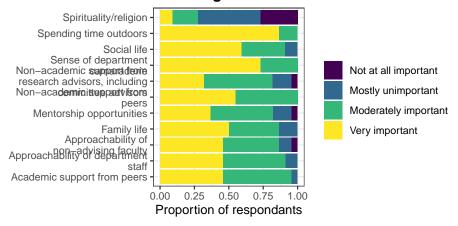
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Well-being factors

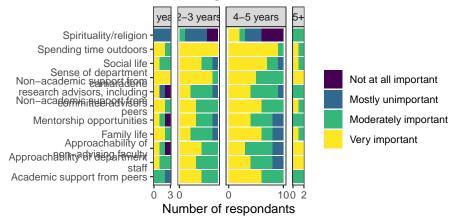
plot_fun(toplot\$colnames[6])

There are many factors that can have an eff on someone's wellbeing. Please identify ho important the following items are to your pe wellbeing.

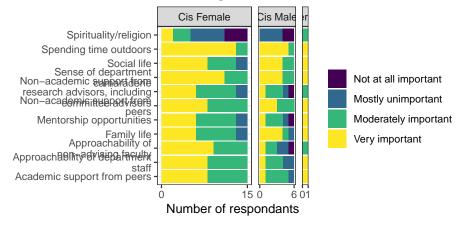


```
for (i in 1:length(demographic.cats)) {
  print(
  plot_facet_fun(toplot$colnames[6], demographic.cats[i])
  )
}
```

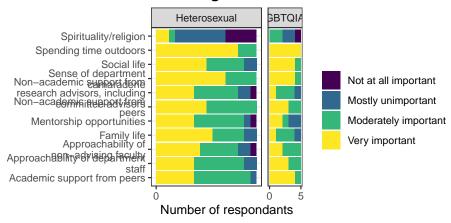
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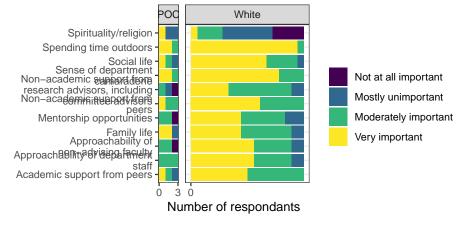
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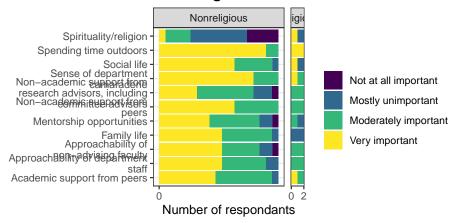
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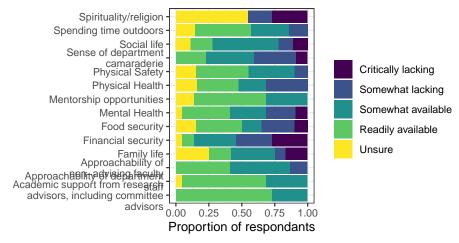
There are many factors that can have an eff on someone's wellbeing. Please identify ho important the following items are to your pe wellbeing.



Strengths and weaknesses

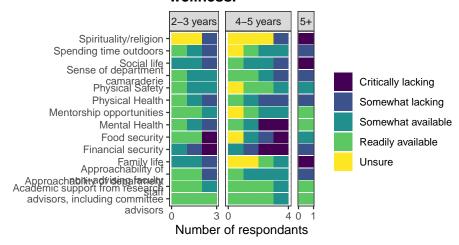
plot_fun(toplot\$colnames[7])

We would like to identify EEMB's strength and weaknesses in supporting graduate swellness.

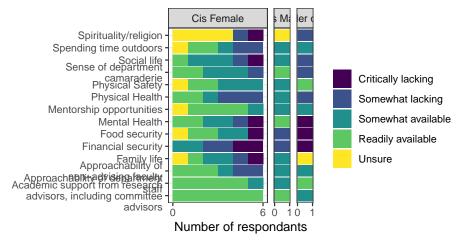


```
for (i in 1:length(demographic.cats)) {
   print(
   plot_facet_fun(toplot$colnames[7], demographic.cats[i])
   )
}
```

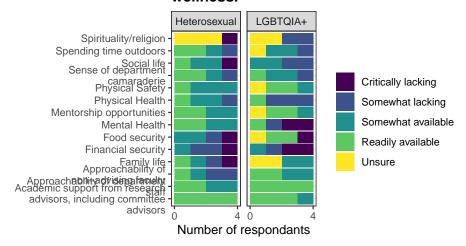
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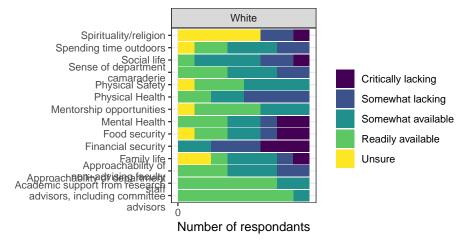
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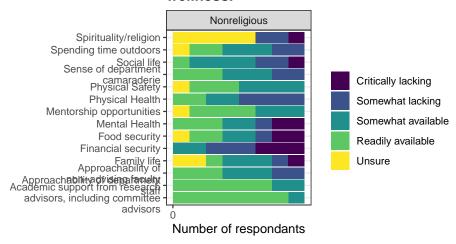
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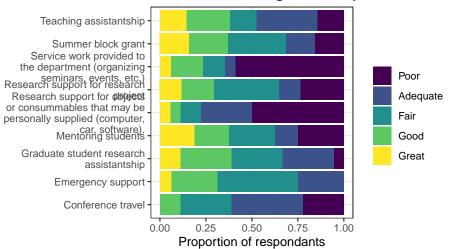
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Financial well-being

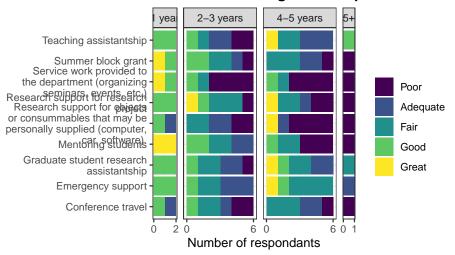
plot_fun(toplot\$colnames[8])

How would you rate the support for person financial wellbeing in our department

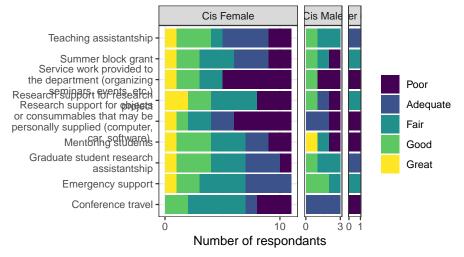


```
for (i in 1:length(demographic.cats)) {
   print(
   plot_facet_fun(toplot$colnames[8], demographic.cats[i])
   )
}
```

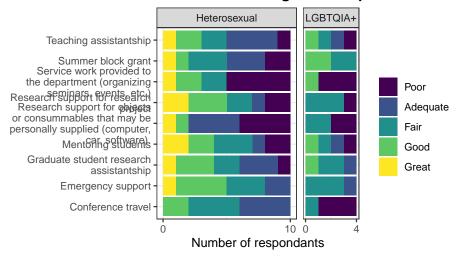
How would you rate the support for person financial wellbeing in our department



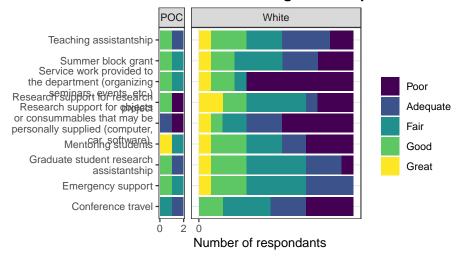
How would you rate the support for person financial wellbeing in our department



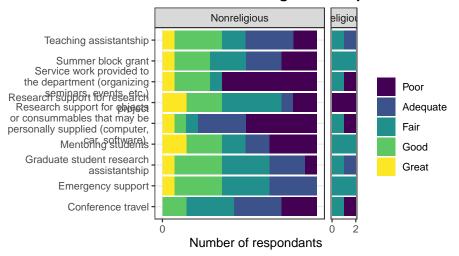
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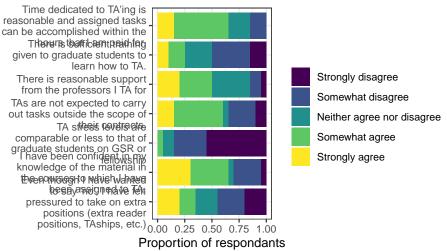
How would you rate the support for person financial wellbeing in our department



TAing experiences

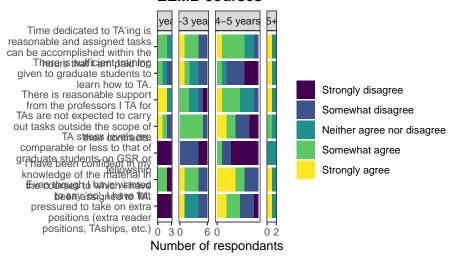
plot_fun(toplot\$colnames[9])

How would you rate your experience as a 7 EEMB courses

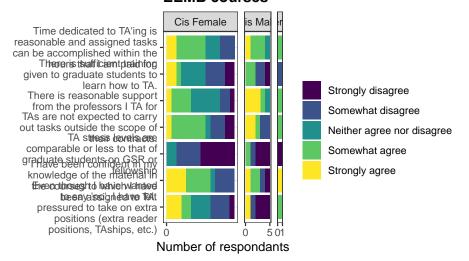


```
for (i in 1:length(demographic.cats)) {
  print(
  plot_facet_fun(toplot$colnames[9], demographic.cats[i])
  )
}
```

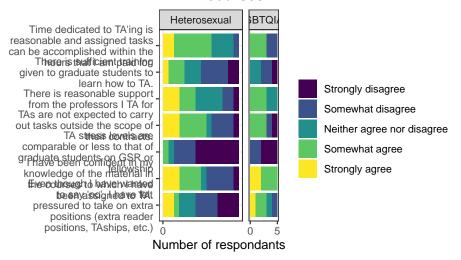
How would you rate your experience as a 7 EEMB courses



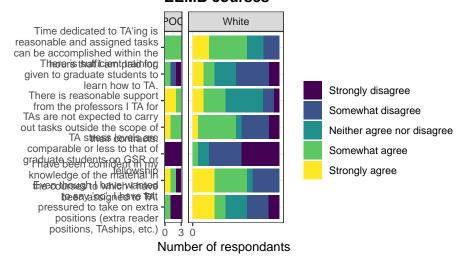
How would you rate your experience as a 7 EEMB courses



How would you rate your experience as a 1 EEMB courses



How would you rate your experience as a 7 EEMB courses



How would you rate your experience as a ∃ EEMB courses

