

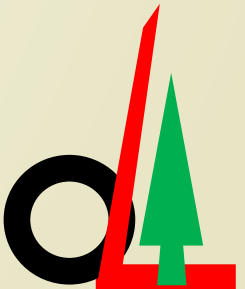
# Operational Lidar Inventory (OLI) 2022 Meeting

And Other Remote Sensing Too!

Jacob Strunk

3/30/2022

Agenda: <https://mensurationist.net/2022-operational-lidar-inventory-meeting/>

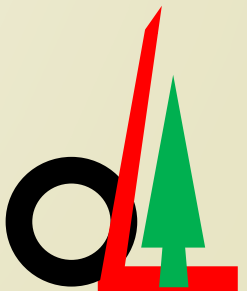


# Origin of OLI



Need for **operational** remote sensing & forest inventory venue

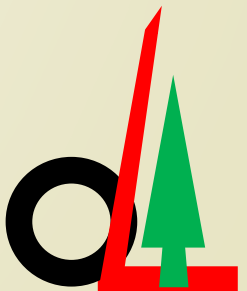
- Operational forestry venues ✓
- Operational lidar / remote sensing venues ✓
- **Research** remote sensing / forestry venues ✓
- **Operational** remote sensing & forestry venue ✗



# OLI "Mission"

Make / Communicate "OPERATIONAL" R&D for Remote Sensing / Forestry

- 1) Tech transfer
- 2) Operationally relevant research objectives
- 3) Social engagement across groups (private, public, research, consultants)
- 4) Identify knowledge, methodological gaps
- 5) Identify solutions



# OLI Facilitators:



- Richard & Melinda help / fix broken things
- Website, etc.
  - Mensurationist.net
  - Westernforestry.org
- Mailing list
  - WFCA
  - <https://groups.google.com/g/oli2>



Richard Zabel



Melinda Olson



# Housekeeping for 2022 Virtual OLI Meeting

## Secret Word Submissions

If you would like SAF CFE Credits or ISA credits a secret word slide will be shown near the end of the workshop. Use the following link to submit the secret word:

<https://www.surveymonkey.com/r/2022OLIcredits>. The link will close at 11pm on Wednesday, April 6th.

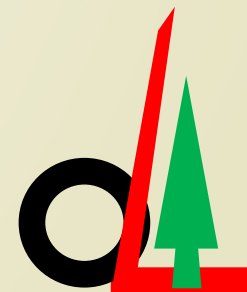
## Chat Box

If you have questions for any of the speakers during the meeting a chat box will be open throughout the meeting. Please type your question(s) into the chat box and they will be read by the moderator.

The chat box is set-up so you can message one individual attendee, or everyone. To send a personal message use the dropdown menu in the chat box to review the attendee list, select the individual you'd like to message, enter your message and click enter to send it.

## Recording of 2022 OLI Meeting


We will be recording the Zoom meeting on Wednesday, April 6th. If you are unable to attend or would like to view the recording again after the live session we will send out the access information for the recording by email as soon as it is available.



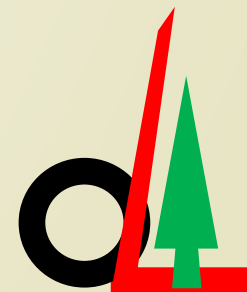
# Breakout Room Instructions & Options

## Self-selecting a breakout room

You will be able to enter and leave breakout rooms freely. There will be 4 breakout rooms (Open Breakout Room 1, 2, 3, and 4) that will open all day. An additional breakout room for the Lunch Discussion will be available between 12-12:30pm.

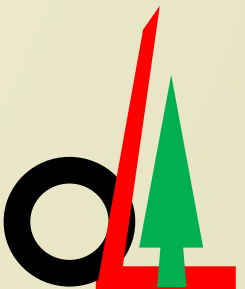
**Note:** Participants who have not joined with the desktop or mobile Zoom app (version 5.3.0 or higher) will not be able to self-select a breakout room. The host will need to facilitate moving these participants manually, please send a note to Melinda Olson in the chat box and ask to be moved into a specific breakout room. 

1. Click **Breakout Rooms** in your meeting control button, most commonly found at the bottom of your screen. (This will display the list of open breakout rooms.)
2. Hover your pointer over the number to the right of breakout room you wish to join, click Join, then confirm by clicking Join.
3. Repeat as necessary to join other breakout rooms, or click Leave Room to return to the main session. You can return to main session at any time.



# Presentation Format

- 1-2 minutes intro/ handoff
- ~23 minutes presentation
- 5 minutes questions
- Place questions in chat box
- We will relay to speakers
  
- Very strict with time
  - Feel free to use breakout room “follow-up discussion”
  - We can use main room during breaks if people are interested



# 2022 Meeting Agenda

<https://mensurationist.net/2022-operational-lidar-inventory-meeting/>

8:30 Welcome / Intro – **Jacob Strunk**, USFS, FIA

8:45 *Current status and application of airborne lidar in Canadian forest inventory programs* – **Piotr Tompalski**, Canadian Forest Service

9:15 *Individual tree detection and characterization using high-density UAS lidar data* – **Bob McGaughey**, USFS, PNW

## 9:45 Break / Optional Breakout

10:00 *A fast algorithm for estimation of stem dimensions, lean and sweep irrespective the position of the tree* – **Bogdan Strimbu**, OSU

10:30 *FVS Growth Projections from Lidar kNN Inventory* – **Jacob Strunk**, USFS, FIA

11:00 *Multi-year Photogrammetric Point Cloud QA Approaches* – **Jonathan Kane**, UW, PFC

11:30 *Exploring the innovation potential of single photon lidar for large area forest inventories* – **Joanne White**, Canadian Forest Service

**12:00 Lunch Break / Optional Discussion Session: Mike Parlow and Cam Brown, ForSite, Individual Tree and Area-Based Tradeoffs with a 15 min presentation on “LiDAR and Satellite for Species Identification”**

12:30 *Integrating imagery into the lidar classification workflow* – **Andrew Brenner**, QSI

1:00 *Assessment of individual tree detection algorithms from Lidar* – **Aaron Sparks**, Univ. of Idaho

1:30 *Remote Sensing Forest Inventory Modeling Database, DAP Project* – **Andrew Cooke**, Univ. of WA

2:00 *Vegetation structure model updates from the Forest Service Pacific Northwest Region* – **Karin Wolken**, USFS, R6

## 2:30 Break / Optional Breakout

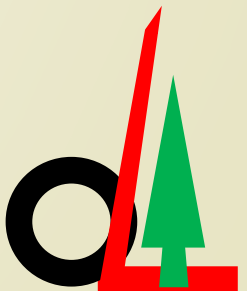
3:00 *TLS data to estimate aboveground biomass of open-grown urban and rural forest trees* – **Georgios Areseniou et.al.**, Mich. State U.

3:30 *Improving site index resolution with Lidar and satellite imagery to refine growth model predictions* – **Tom Baribault**, Mason, Bruce & Girard

4:00 *Coarse woody debris detection on the Malheur National Forest using airborne laser scanning* – **Laura Dempsey**, N. Carolina St. Univ.

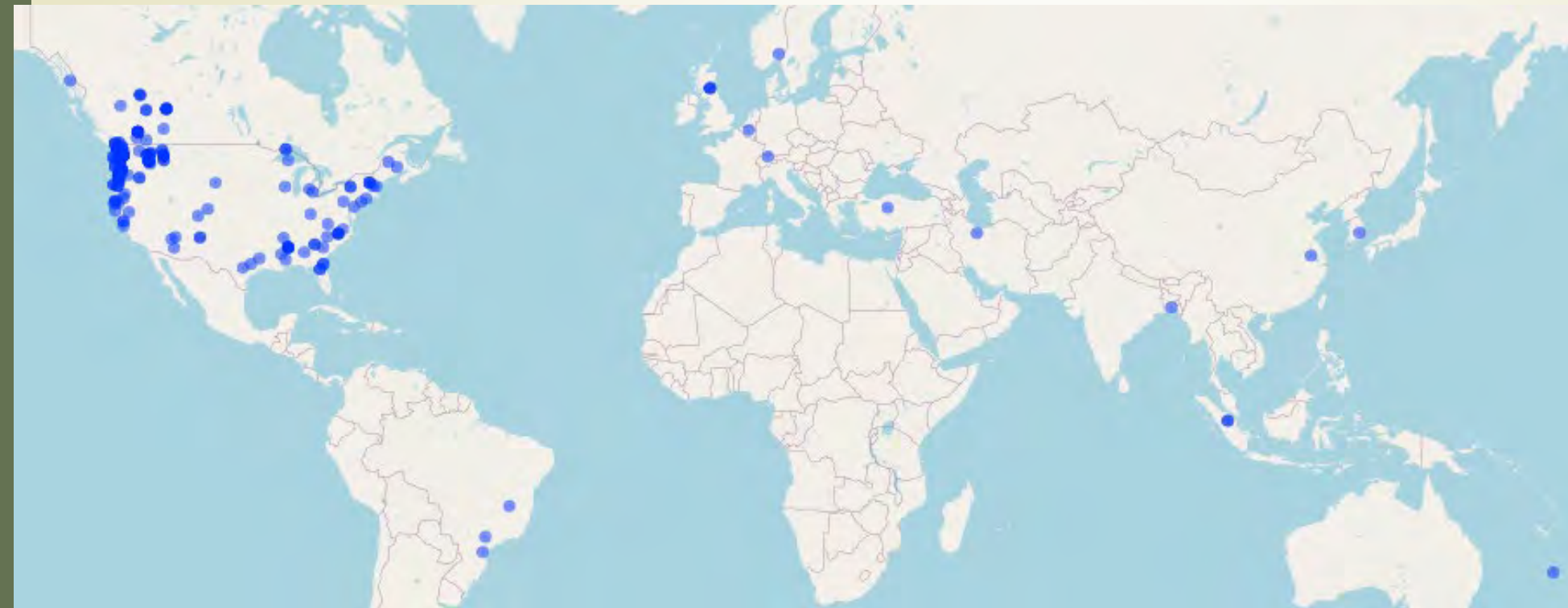
4:30 *Specifying geospatial data product characteristics for forest and fuel management applications* – **Arjan Meddens**, WA State University

**5:00 Adjourn** Agenda: <https://mensurationist.net/2022-operational-lidar-inventory-meeting/>



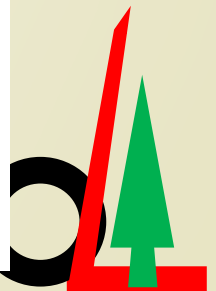
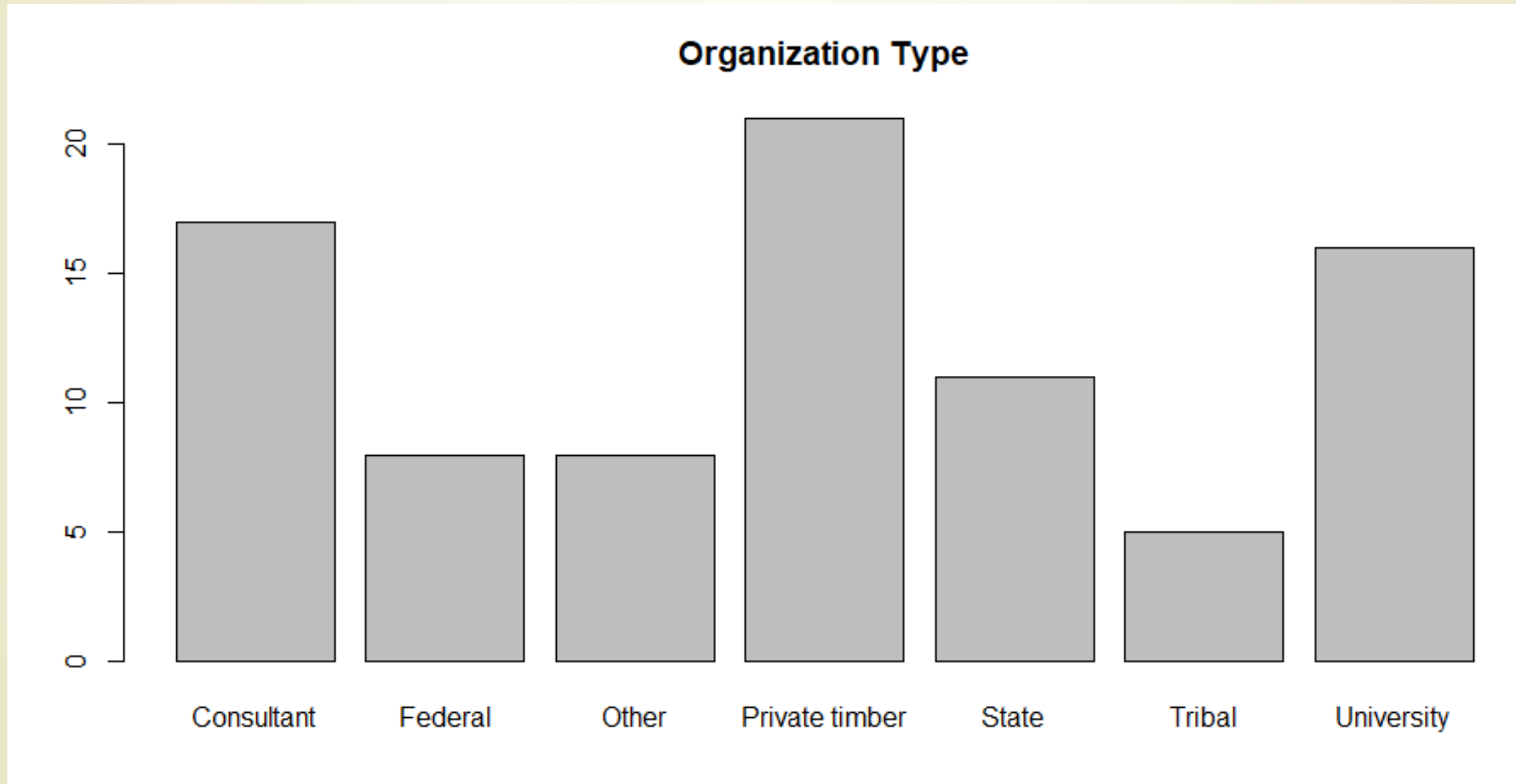


# 264 Registrants (65 students) 14 countries

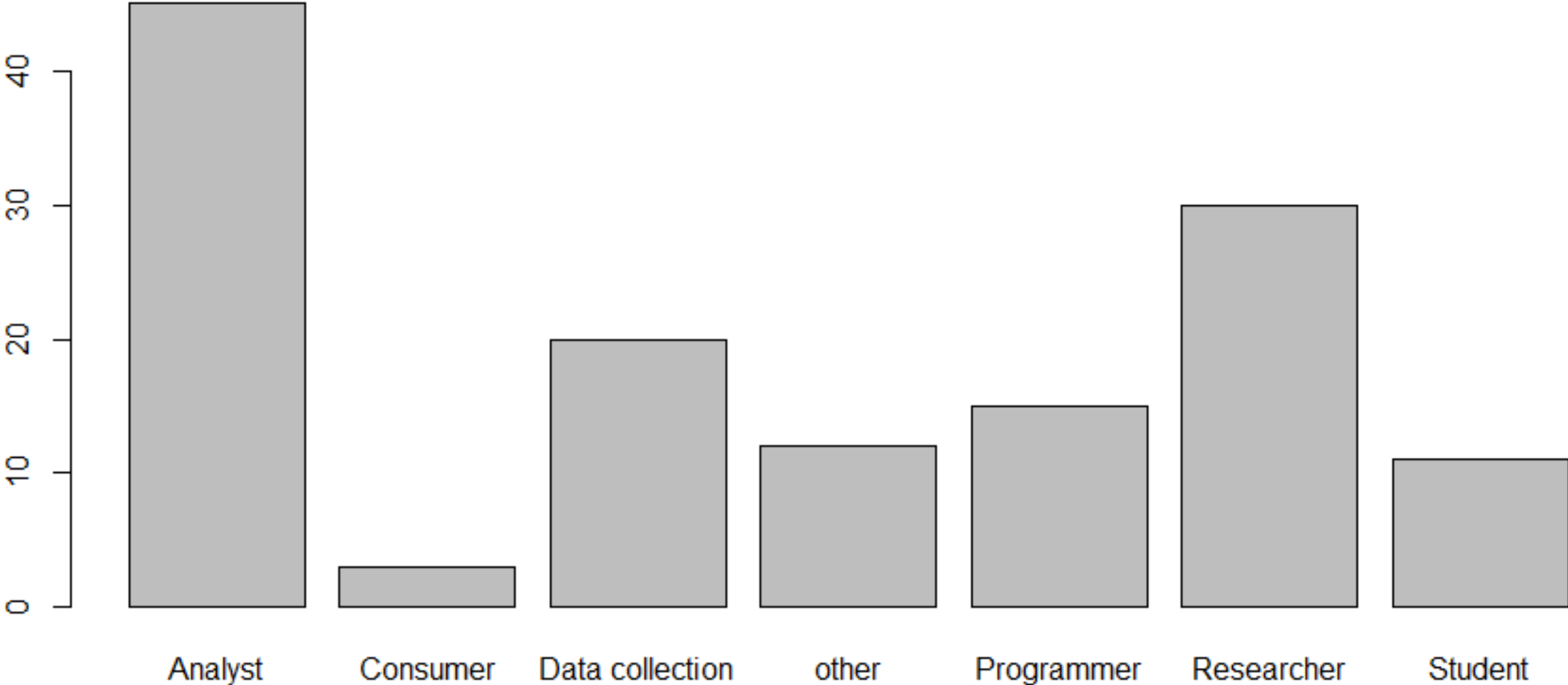


| country        | registrants |
|----------------|-------------|
| Australia      | 1           |
| Bangladesh     | 1           |
| Belgium        | 1           |
| Brazil         | 3           |
| Canada         | 48          |
| China          | 1           |
| Indonesia      | 2           |
| Iran           | 1           |
| Korea          | 1           |
| Norway         | 1           |
| Switzerland    | 1           |
| Turkey         | 1           |
| United Kingdom | 3           |
| United States  | 201         |

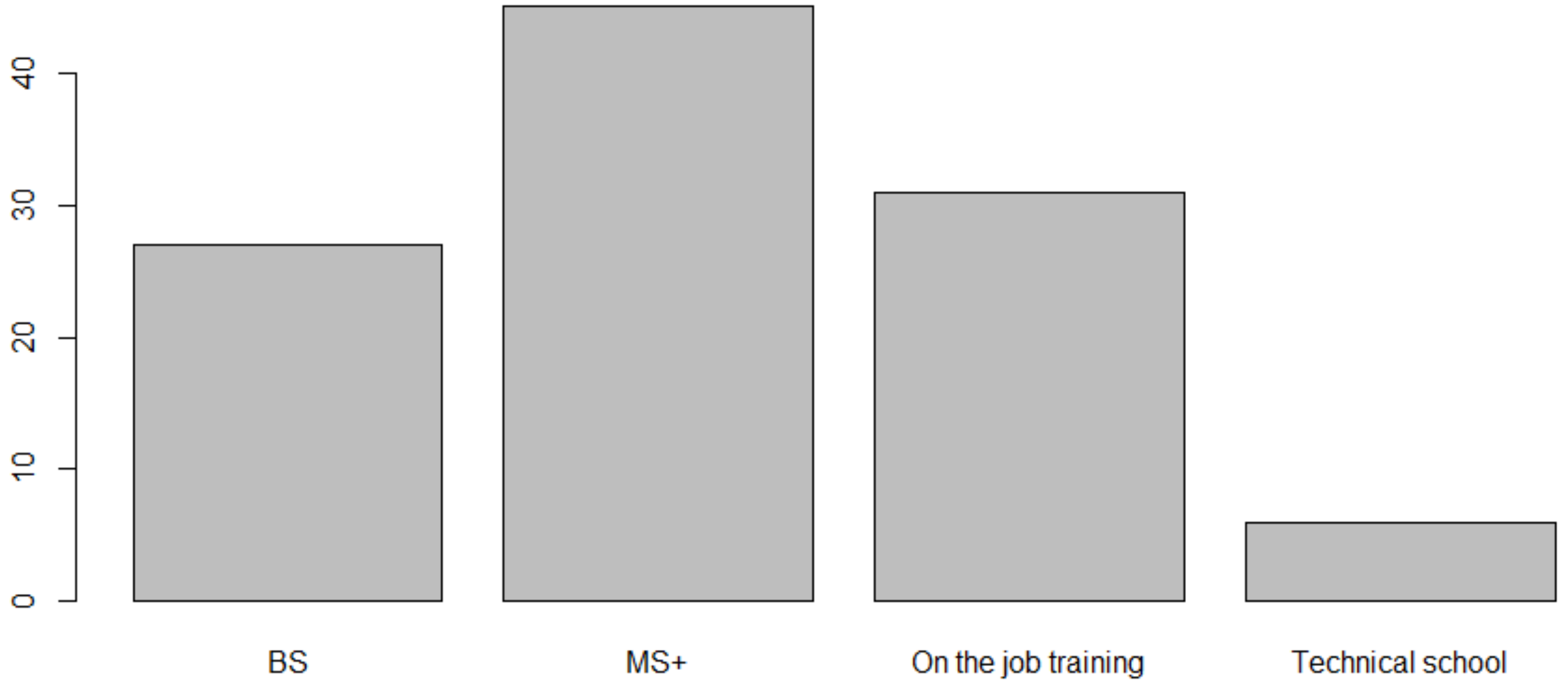
# Poll Results (82 responses) – Thank you!



# Role

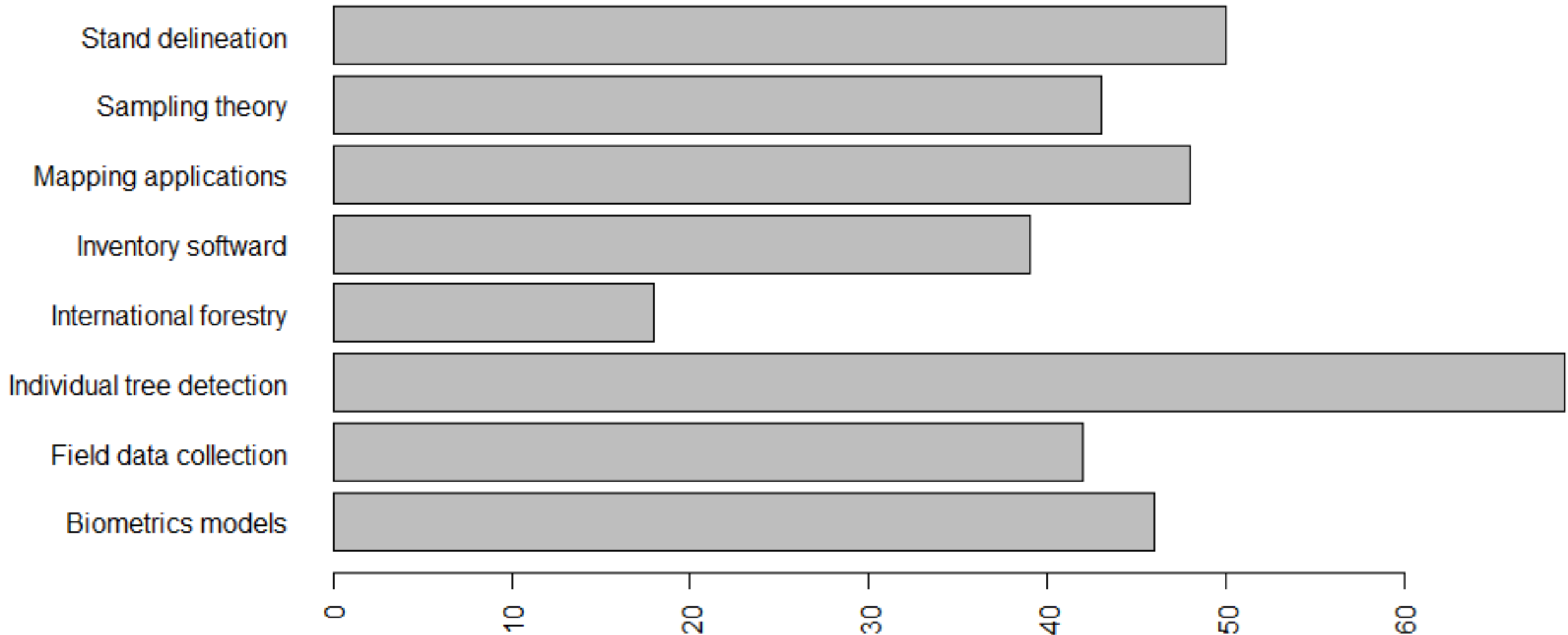


## Relevant Training

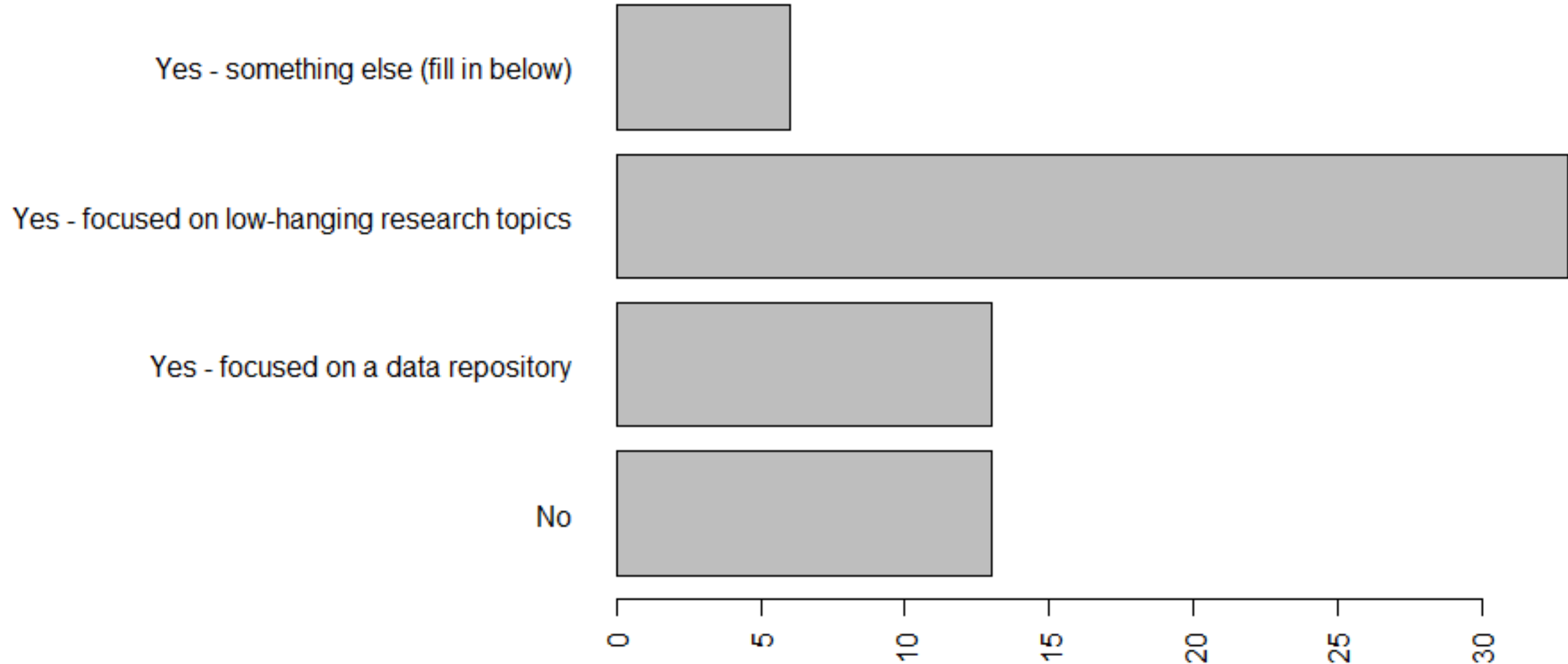




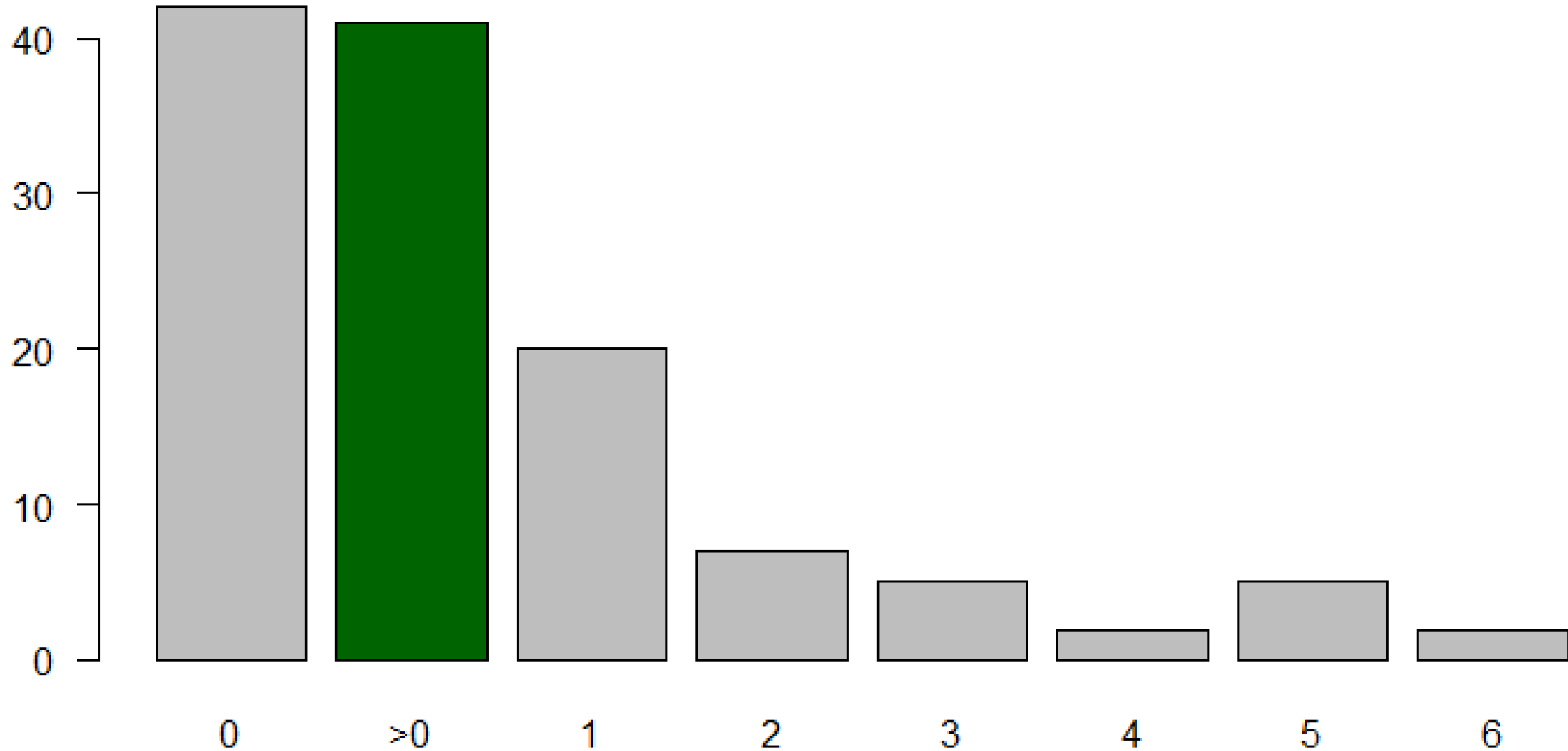
## Desired Topics



## Join / Create Cooperative



## Years of Attendance



End - Thank you!

