



Joint Modeling of Longitudinal and Event-Time Data in Biomedical and Health Research Workshop

Summary and Participant Feedback Report

October 18, 2017

**Report prepared by: Ms. Fahmida Yeasmin and Dr. Karen A Kopciuk
University of Calgary**

EXECUTIVE SUMMARY:

The workshop took place on September 6, 2017 in Clara Christie Theatre, Health Sciences Centre, at the University of Calgary. The workshop presenter was **Dr. Ruwanthi Kolamunnage-Dona** from Department of Biostatistics, University of Liverpool, UK. The workshop included these broad topics: Methodologies of joint modeling, Applications of joint modeling in clinical research, and Software training in R (see appended Schedule). This was our first workshop that included a hands-on training component in the afternoon where participants could implement the new methodology they learned about in the morning lectures.

There were 192 **registered participants** in total, with 81 people registered to attend in-person (42.2%) and another 111 (57.8%) registered to attend online. The participants were mainly from Alberta (82.43%). All participants were sent an **evaluation form** (see Appendix) just as the workshop concluded, with the online version omitting questions regarding the venue as it was not applicable. Forty-five participants submitted their evaluation forms (23.4% response rate), primarily from the in-person respondents (n=32). Most of the respondents were from Alberta (77.8%). The AB respondents included 19 from the University of Calgary, 11 from AB Health Services, two from the University of Alberta and one each from Mount Royal University, MacEwan University and the University of Lethbridge. Overall, the workshop and venue were at or above the expectations of the participants in terms of *Workshop Relevancy* (98%), and a *Useful Learning Experience* (93.3%). It was deemed to be a *Good Opportunity to Network* by 81.2% of respondents who attended in person. The *Content*, *Organization* and *Speaker* were the top best liked aspects of the workshop and *Nothing* was the top response for least liked aspects of the workshop (62.2%).

We gratefully acknowledge the support from our generous funders:

- Office of the Vice-President (Research), University of Calgary;
- O'Brien Institute for Public Health, University of Calgary; and
- Canadian Statistical Sciences Institute;

without their generous support it would not have been possible to present this workshop.

Respectfully submitted by the Workshop Organizers,

Tolulope Sajobi, Ph.D., Alexander de Leon, Ph.D. and Karen A Kopciuk, Ph.D.

Registered Participants

There were 192 registered participants in total, with 81 people registered to attend in-person (42.18%) and another 111 (57.81%) registered to attend online (Figure 1).

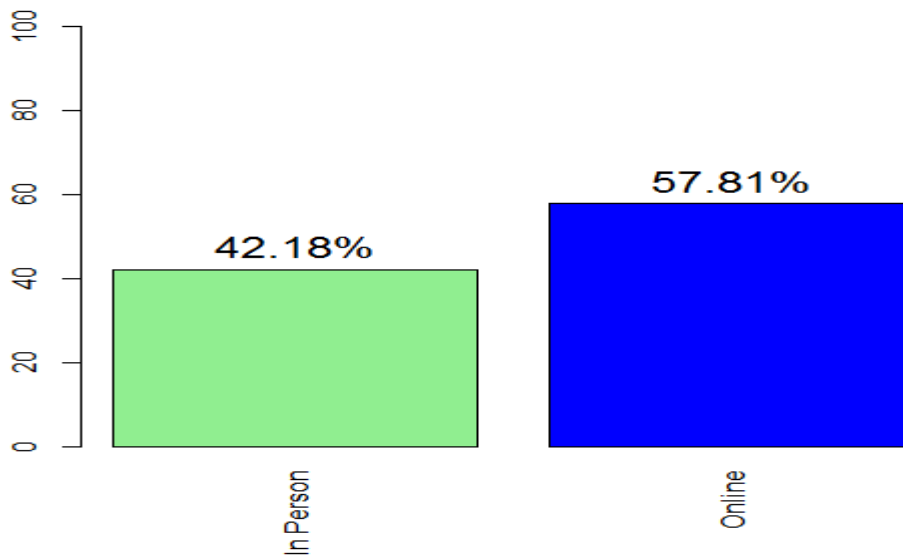


Figure 2a: Workshop Sources of Information

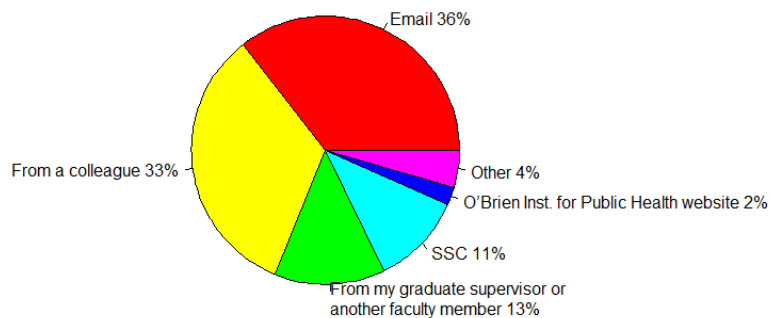


Figure 2b: Workshop Registrant's Geographical Locations



The table below provides the numbers of participants by geographical location:

Regional Affiliation	Location	Number of Respondents
Within Canada	Calgary	66
	Rest of Alberta	5
	BC	1
	SK	3
	MB	3
	ON	23
	QC	2
	NB	1
Outside Canada	U.S.	1
	Europe	6
	China	2
	Middle East	1
	Africa	1
Unknown		77
Total		192

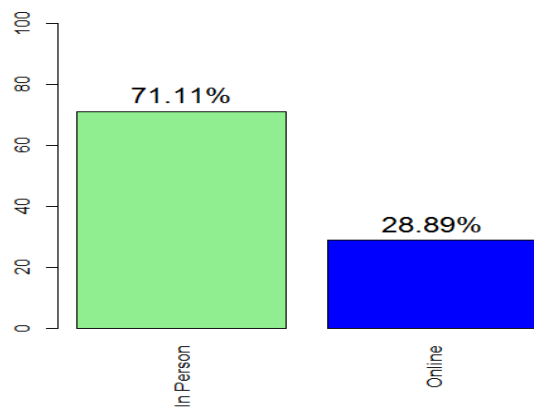
Respondents to Questionnaire

Description of Respondents

All participants were sent an evaluation form just as the workshop concluded, with the online version omitting questions regarding the venue as it was not applicable. (See Appended Evaluation Forms).

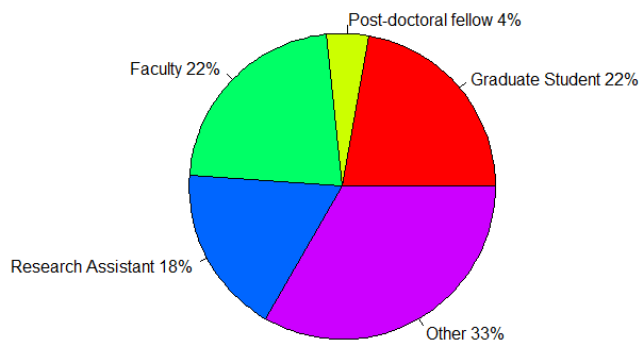
Forty-five participants submitted their evaluation forms (23.44% response rate). Figure 3 shows that the respondent's registration type (in-person, 71.11%) is not similar to the percentage of participants by type (42.18%).

Figure 3: Percentage of Respondents by Registration Type



The proportion of respondents by employment status is given in Figure 4 below. The mix includes 26% trainees, 22% Faculty member and the remaining primarily comprised of Research Assistants and Associates, Data Analysts and Consultants.

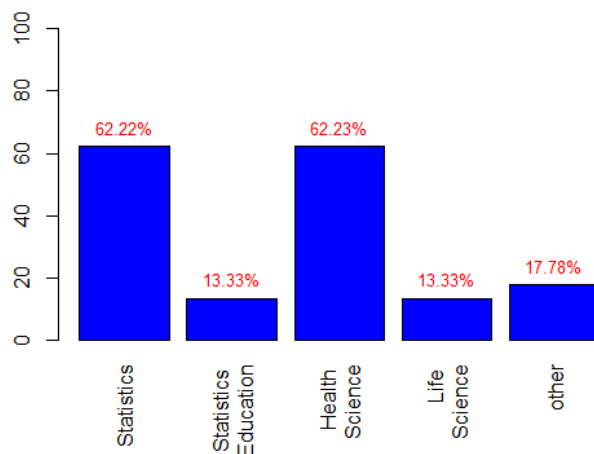
Figure 4: Percentage of Respondents by Occupation



The table below provides the numbers of respondents by institution

Regional Affiliation	Institutions	Number of Respondents	Percentage
Within Alberta	Alberta Health Services	11	77.78
	University of Calgary	19	
	University of Alberta	2	
	MacEwan University	1	
	University of Lethbridge	1	
	Alberta Children Hospital	1	
Rest of Canada	University of Guelph	1	15.56
	University of Manitoba	2	
	University of McGill	1	
	McMaster University	1	
	University of New Brunswick	1	
	University Health Network	1	
Other	ICES	1	06.67
	Gilead Science	1	
	None	1	
Total		45	

Figure 5: Respondents' Research/Working Area



Workshop Evaluation Summary

Overall, the workshop and venue were at or above the expectations of most participants in all of the categories as shown in Figures 6 and 7. Figure 8 shows the Content, Organization and Speaker were the top three best liked aspects of the workshop.

Figure 6: Response Frequencies to Questions on Workshop's Relevancy and Useful Learning Experience

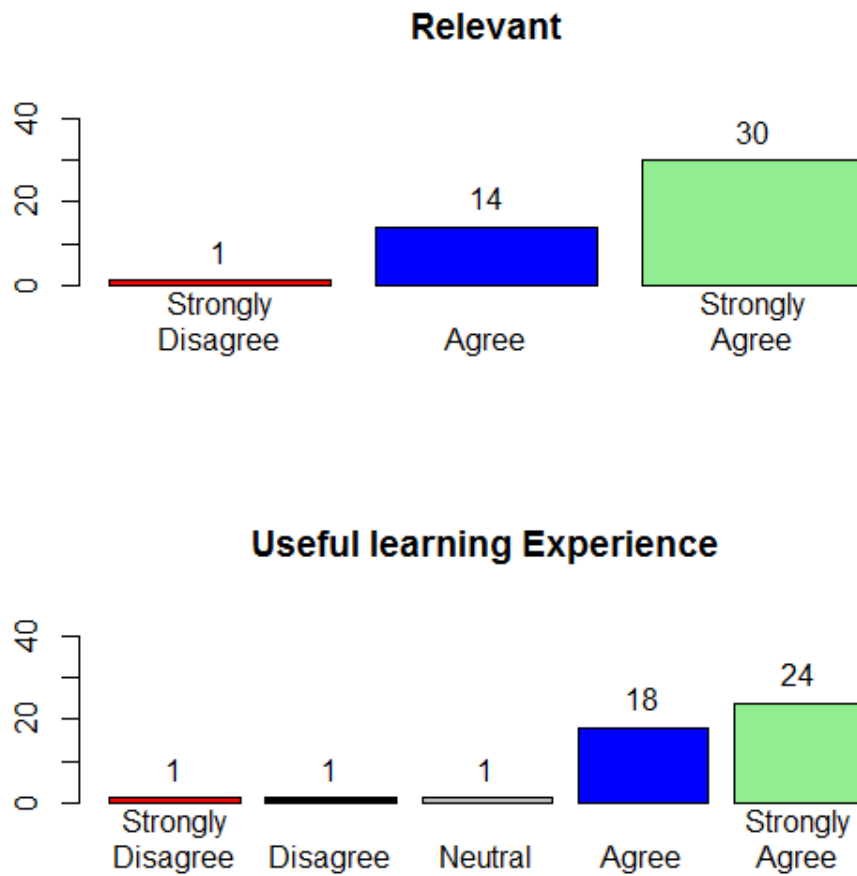


Figure 7: Response Frequencies to Questions on Different Aspects of the Workshop Venue

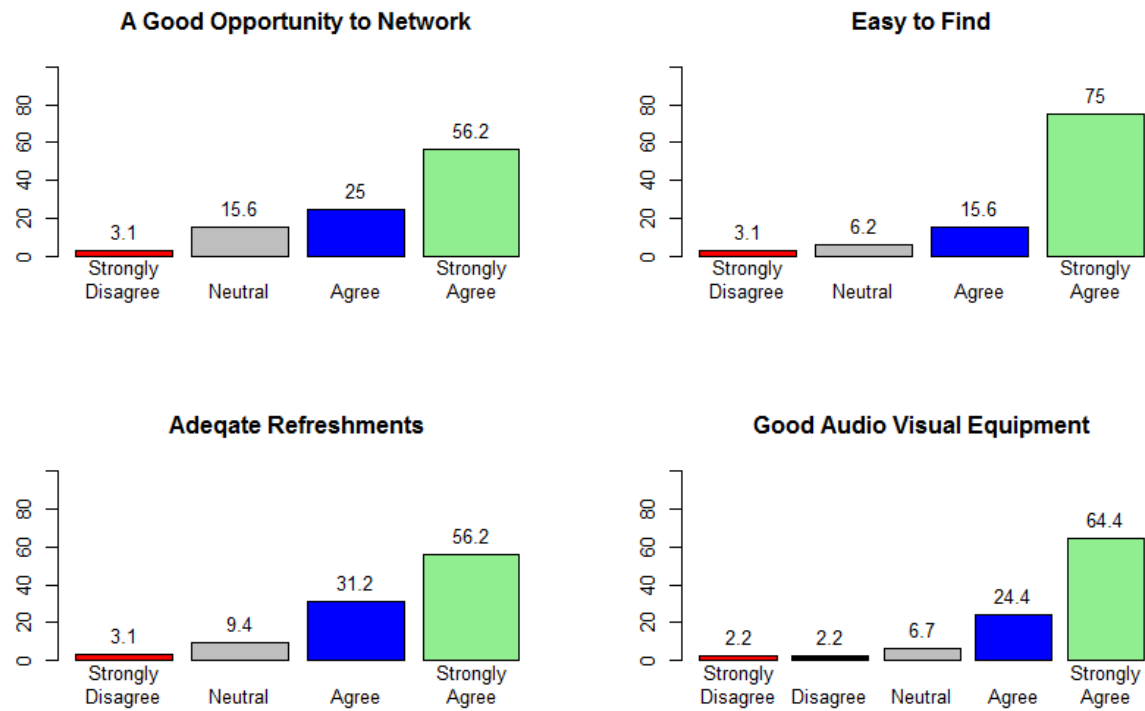
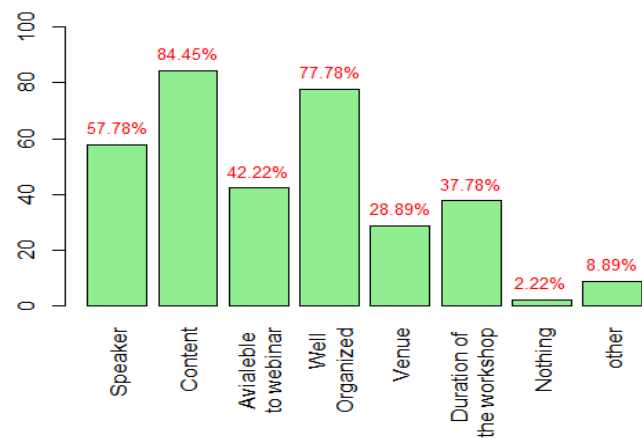


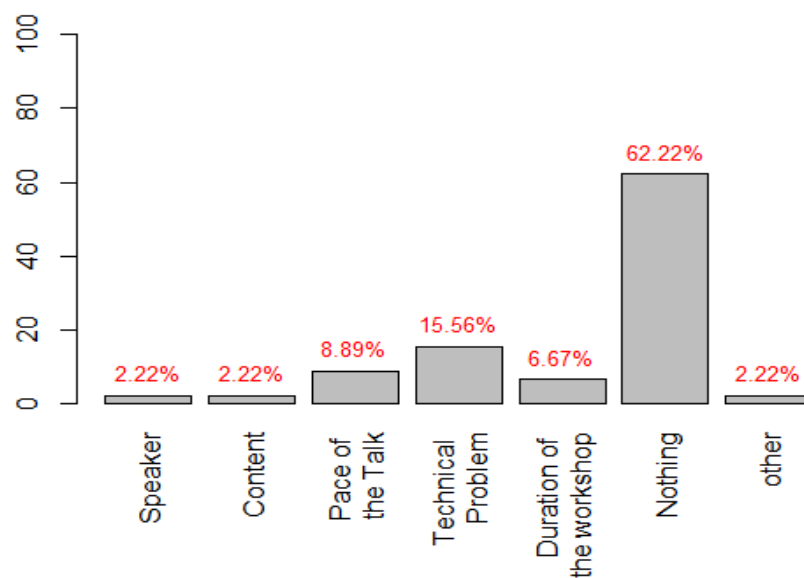
Figure 8: Response Percentages for Best Liked Aspects of the Workshop (more than one category could be selected)



Other “Best Things” listed by the Respondents:

- Hands-on Session.
- Copy of the slides.
- Food.

Figure 9: Response Percentages for Least Liked Aspects of the Workshop (more than one category could be selected)



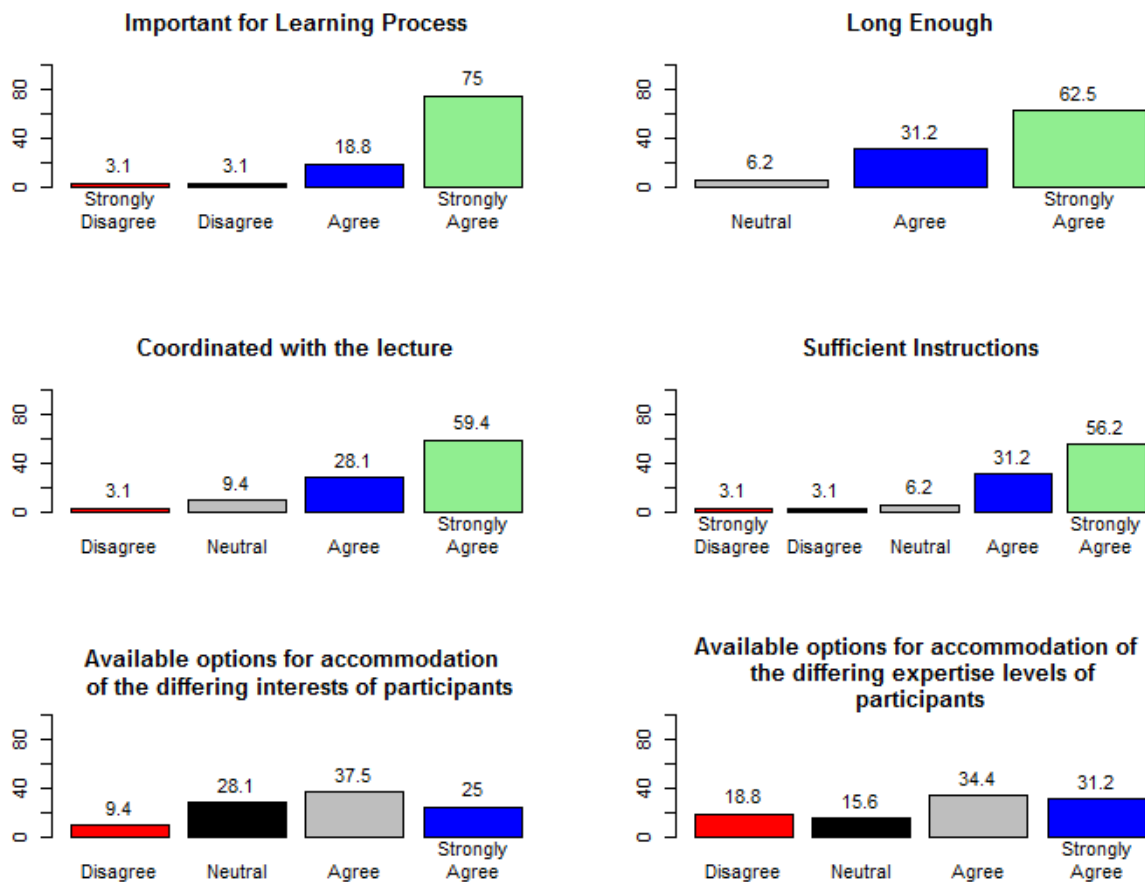
Other least liked issues listed by the Respondents:

- Slides should be available a day before the workshop
- No network the Clara Christie room
- Analyses should have done in front of the group to follow along and interpret the output together.
- Refreshment.

Hands-On Session:

There was a Hands-On session after the lecture session to provide practical data analysis experience using R Statistical Software program and packages. We created 6 questions to obtain feedback on this Hands-On session. Figure 10 shows respondent feedback was mostly positive. Nearly all participants who attended the morning session also stayed for the Hands-on Component in the afternoon until the session concluded at 4 pm.

Figure 10: Feedbacks on Hands-On Session



Joint Modelling Workshop

Presenter: Professor Ruwanthi Kolamunnage-Dona

Schedule for Wednesday September 6, 2017

Time	Activity	Location
09:00 – 09:30	Registration	outside Clara Christie Theatre, HSC
09:30 – 9:45	Welcoming Remarks <i>Tolupe Sajobi</i> Introductions <i>Karen Kopciuk</i>	Clara Christie Theatre, HSC
09:45 – 10:45	Methodologies of joint modelling (an expository lecture)	
10:45 – 11:00	Nutrition and Tea/Coffee Break	outside Clara Christie Theatre, HSC
11:00 – 12:00	Applications of Joint Modelling in Clinical Research	Clara Christie Theatre, HSC
12:00 – 13:30	Networking Lunch	HMRB Atrium
13:30 – 16:00	Software training session in R	Clara Christie Theatre, HSC
16:00	Closing Remarks <i>Tolupe Sajobi</i>	Clara Christie Theatre, HSC

Event Sponsors

O'Brien Institute for Public Health
Canadian Statistical Sciences Institute
Office of the Vice-President Research, University of Calgary

Evaluation Form

Joint Modelling of Longitudinal and Event-Time Data in Biomedical and Health Research- September 7, 2017

* Required

1. Overall the workshop was: Relevant *

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

2. Overall the workshop was: A useful learning experience *

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

3. Overall the workshop was: A good opportunity to network *

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

4. The workshop venue was: Easy to find *

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

5. Audio-visual equipment worked well *

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

6. Food and refreshments were adequate **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

7. What did you like best about this workshop?(Select all that apply) **Check all that apply.*

- ☐ Speaker
- ☐ Content of the talk
- ☐ Available to Webinar
- ☐ Well Organized
- ☐ Venue
- ☐ Duration of the workshop
- ☐ Nothing
- ☐ Other: _____

8. What did you like the least about this workshop (Select all that apply)? **Check all that apply.*

- ☐ Speaker
- ☐ Content of the talk
- ☐ The pace of the talk: Too slow or Too fast
- ☐ Technical Problem/Disturbance
- ☐ Venue
- ☐ Duration of the workshop
- ☐ Nothing
- ☐ Other: _____

Your Background

9. What type of participant are you? **Mark only one oval.*

- ☐ Graduate student
- ☐ Post-doctoral fellow
- ☐ Faculty
- ☐ Research Assistant
- ☐ Undergraduate Student
- ☐ Other: _____

10. Which field best describes your main area of research/work?(Check all that apply)*Check all that apply.*

- ☐ Statistics
- ☐ Statistics Education
- ☐ Health Science
- ☐ Social Science
- ☐ Physical or Engineering Science
- ☐ Computer Science
- ☐ Life Science
- ☐ Other: _____

11. How did you learn about this conference **Mark only one oval.*

- ☐ O'Brien Institute for Public Health website
- ☐ Email
- ☐ From a colleague
- ☐ From my graduate supervisor or another faculty member
- ☐ SSC
- ☐ Other: _____

12. What university or organisation are you affiliated with? (please specify) *

13. Do you have any other suggestions for future workshops ?

Hands-On session**14. The hands-on session was important for the learning process in the Workshop. ****Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

15. 15. The hands-on session was long enough. **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

16. 16. The hands-on session was coordinated with the lecture. **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

17. 17. There were sufficient instructions to proceed with the hands-on assignments. **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

18. 18. There were available options for accommodation of the differing interests of participants. **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

19. 19. There were available options for accommodation of the differing expertise levels of participants **Mark only one oval.*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

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