

Understanding the use of student ratings of instruction (SRI) data for research purposes

Presenters:

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Bruno Roy

Robyn Moore



**DALHOUSIE
UNIVERSITY**

Acknowledging the Land

Please recognize with me the land I live on and that the University I work at, Dalhousie University, is part of Mi'kma'ki, the ancestral and unceded lands of the Mi'kmaq People.

Go to: <https://native-land.ca/>



Mi'kmawey Debert Cultural Centre,
Teaching about the Mi'kmaq, p.16



Presenters



Dr. Jill McSweeney-
Flaherty (Harley)



Robyn Moore
(Soda & Scout)



Bruno Roy
(Rusty)

Team Members

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Thank you!

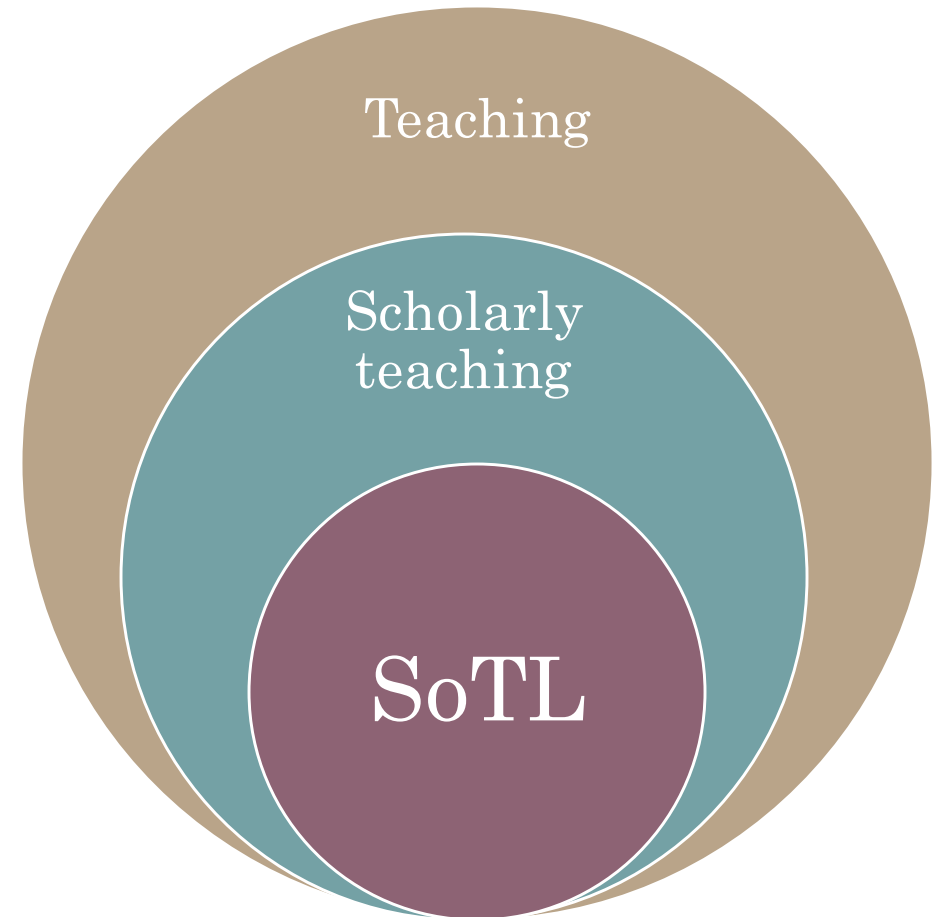
Explorance Faculty Research Grant 2021

bluenotes
group



Background & Rationale

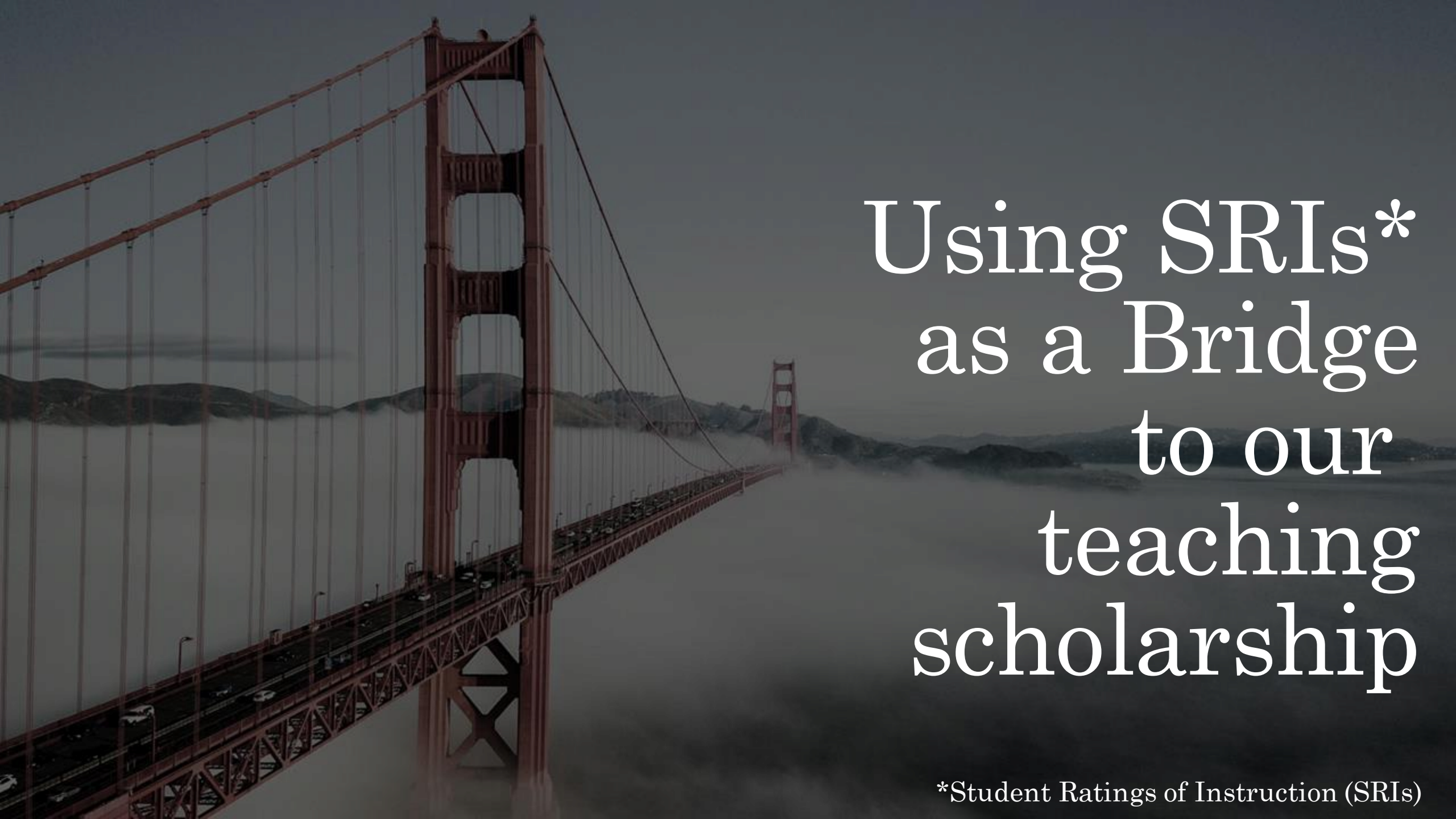
- Scholarship of teaching and learning (SoTL), "**the systematic study of teaching and/or learning**" (McKinney, 2007)
- SoTL helps us **enhance** the student experience and our pedagogical practices



Life Cycle of SoTL



Evidence helps us *ask* and *answer* questions about our teaching practice and student learning



Using SRIs*
as a Bridge
to our
teaching
scholarship

*Student Ratings of Instruction (SRIs)



Why SRIs?

- Rich & abundant
- Student voice
- Existing data, little to no work to collect data
- Evidence across contexts
- Platforms aid in analysis, visualization & dissemination

Audience Poll

Have you used SRI data* for research on your teaching practice? Or know of others at your institution who do?

- Yes
- No
- I don't know



Realities of use

- Institutional ethics board*
- Institutional barriers preventing use
- Unclear process

*Canadian Institutes of Health Research, Natural Sciences and Engineering Research Council of Canada, and Social Sciences and Humanities Research Council of Canada, *Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans*, December 2018.



Research Questions

1) Systematically explore the potential ethical considerations of using SRI data for research purposes.

2) Compare U15* institutional policies and practices around SRI data use for research purposes.

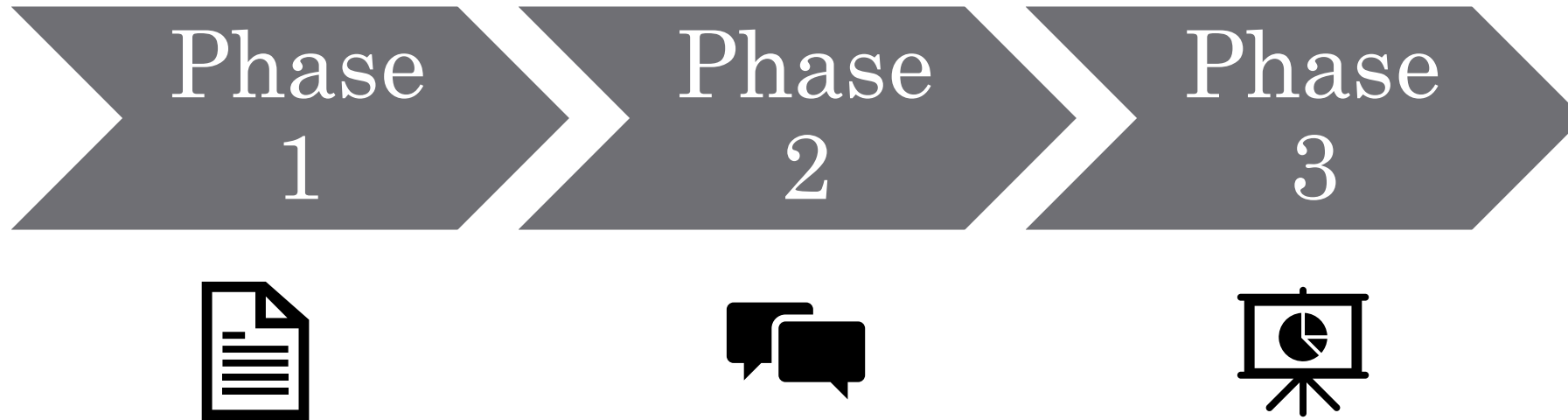
3) Explore BLUE's capabilities to facilitate research on teaching and learning.

Phases
1 & 2

Phase 3



Research Design



Audience Engagement

We want to hear from you!

- <https://bit.ly/2V6zRFZ>





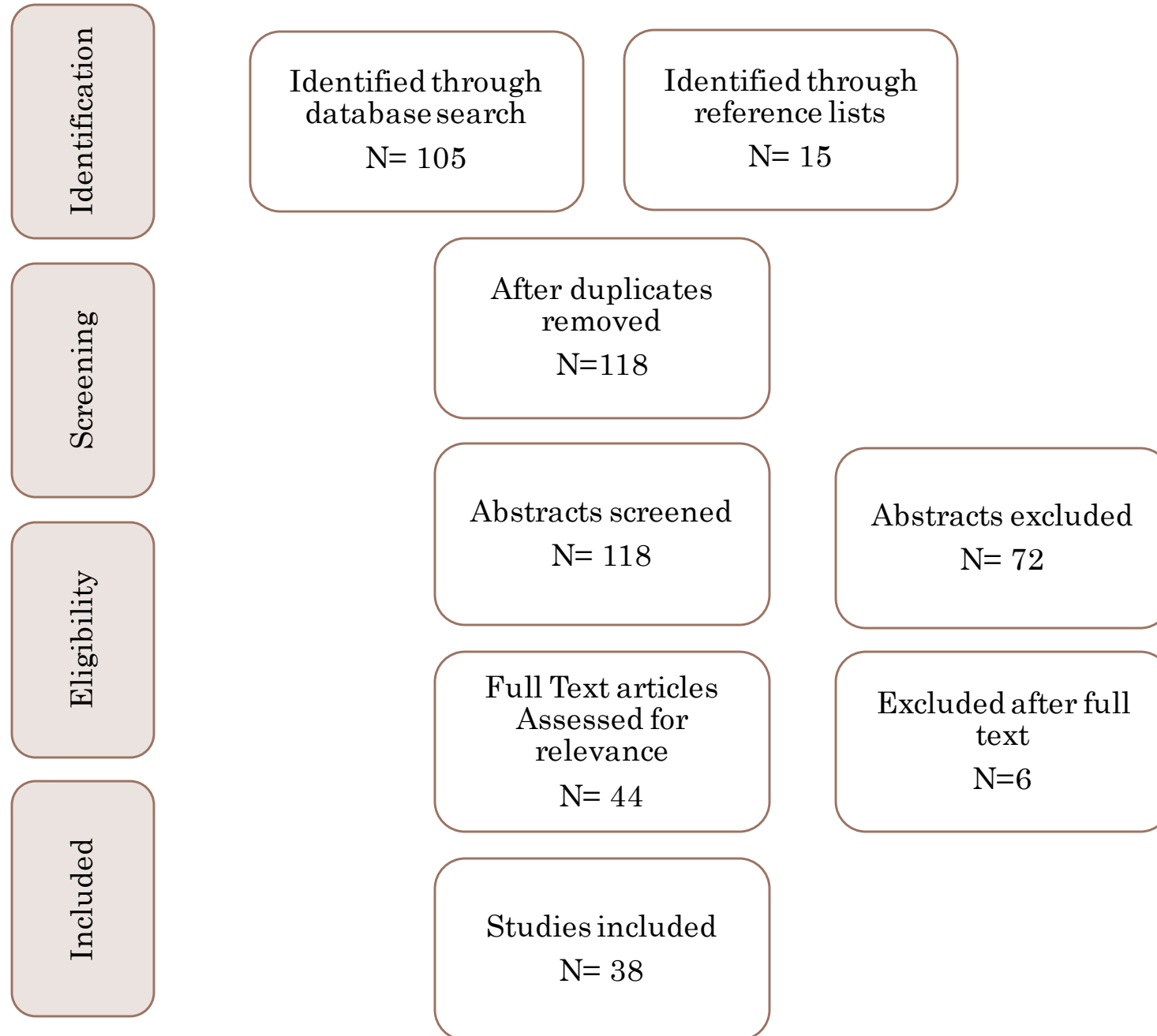
Phase 1 – Scoping Review & Document Analysis

Phase 1 Methods: Scoping Review

- Scoping Review Process (Arskey & O'Malley, 2005)
- Databases Searched
 - ERIC
 - PsychINFO
 - Sociological Abstracts
 - Academic Search Premier
 - Taylor and Francis Online

Terms related to SRI	Terms related to SoTL	Terms related to University
<ul style="list-style-type: none"> • “Student Rating of Instruction” • “Student Evaluation of Teach*” • “Course Evaluation” • “Teacher Evaluation” • “Student Learning Experience Questionnaire” • “Course Experience Questionnaire 	<ul style="list-style-type: none"> • “Scholarship of Teaching and Learning” • SoTL 	<ul style="list-style-type: none"> • University • Higher Ed* • Tertiary Ed* • College

Phase 1 Results: Scoping Review



Phase 1 Results: Scoping Review Themes

Theme	Number of articles
Ethical Considerations of SoTL	13
Methodological Considerations of SRI as data	3
Examples of SRI as data	22

Phase 1 Results: Scoping Review

Ethical Considerations of SoTL

- Privacy & Confidentiality
 - Use of student data
 - Anonymization
- Conflicts of Interest
 - Dual role of Instructor
- Fairness and Equity in Research Participation
 - Undue influence
- Secondary Use of Information
 - Already collected data
 - No consent obtained



Phase 1 Results: Scoping Review

Methodological Considerations of SRI as data

- Validity of Data
 - Students not taking SRIs seriously
 - Student experience versus teaching effectiveness
- Useable data
 - Some studies found that the SRI data was not helpful for the questions they were asking



Phase 1 Results: Scoping Review

Examples of SRI as data

- Of the 22 studies who mentioned SRI as data source, only one directly states that REB approval was sought.
- Many examples of studies using this data suggests that some institutions may have processes in place to support this type of research



Phase 1 Methods: Document Analysis

- Document Analysis Process



Audience Poll

Does your institution have a formal policy that states how SRIs (or your institution's variation) can be used for research purposes?

- Yes
- No
- I don't know



Phase 1 Results: Document Analysis

SRI Policies of U15s

- 8 had formal policies on their institution's SRIs
 - 2 mentioned SRIs for research purposes
 - Remaining 6 do not include research under purpose for SRIs
- Ownership
 - None of the 8 directly mention ownership
 - 2 mention that instructors are responsible for releasing the data



Phase 1 Results: Document Analysis

Research Ethics

- 13 had formal policies
 - 3 state that **collecting** SRI data is not research and thus does not need ethics approval
 - 2 of which suggest that **using** the SRI data **after it is collected** falls under Secondary Data Analysis that requires ethics approval
 - 2 do not mention SRI specifically but do mention student data more generally

Phase 1
Results:
Document
Analysis

No clear consensus on
SRI and research policies

No standard for
ownership

No clear consensus on
SRI and ethics*



Phase 2: Interviews

Phase 2: Methods

- Semi-structured Interviews
- SRI Administrators, Data Stewards, Directors of Teaching Centres or University Administrators (n = 9)
- **Preliminary Analysis** (more interviews scheduled)
 - 3 Independent Reviewers
 - Content analysis



Theme 1: Value but ambiguity

Value in SRI data for research, no clear cut process on how to access/use, but would like one!

“I think there's **more of a need now than ever** to do research on this kind of data so that we can continue to support students having a voice ...Especially if your institution strives to be a top teaching institution, I think it's important to have that data available for research purposes” (Participant 001)

“I think there is a lot of value in it just in terms of, it's one of the only systematic ways that we collect feedback from students and have their perspective on the experience within a course.” (Participant 004)



Theme 2: Data Handling Barriers

- **Ownership (n=7): Who has the rights to the data?**
 - Institution/Student/Instructor
- **Access (n=7): Who can access what types of data?**
 - Quantitative vs Qualitative | Raw vs aggregate
- **Management: Who oversees the data?**
 - Department, Teaching Centre, Institutional Analytics

“But nothing really stands in their way of doing it other than tedium and process.” (Participant 003)

Theme 3: Ethical Considerations

- Confidentiality (n = 7) : student, instructor, and institution
- Consent (n = 3)
- Clarity on data governance (n = 5)
- When is it exempt? (n = 3)
- Governed by the Institution's Research Ethics Board (n = 7)

"I don't think there are any questions that need to be asked if the research ethics board is evaluating a proposal for, they're going to catch all the questions." (Participant 002)

Overview

- Important tool for SoTL
- Desire for formal policy for governance
- Ethical concerns are already covered by TCPS
- **Tension between Institutional vs Ethics Board governance of use**



Phase 3 – Use of BLUE

Phase 3: Intended Methods

- A) Survey faculty – utility of Blue for data analysis and visualization
- B) Invitation to the Faculty Dashboard



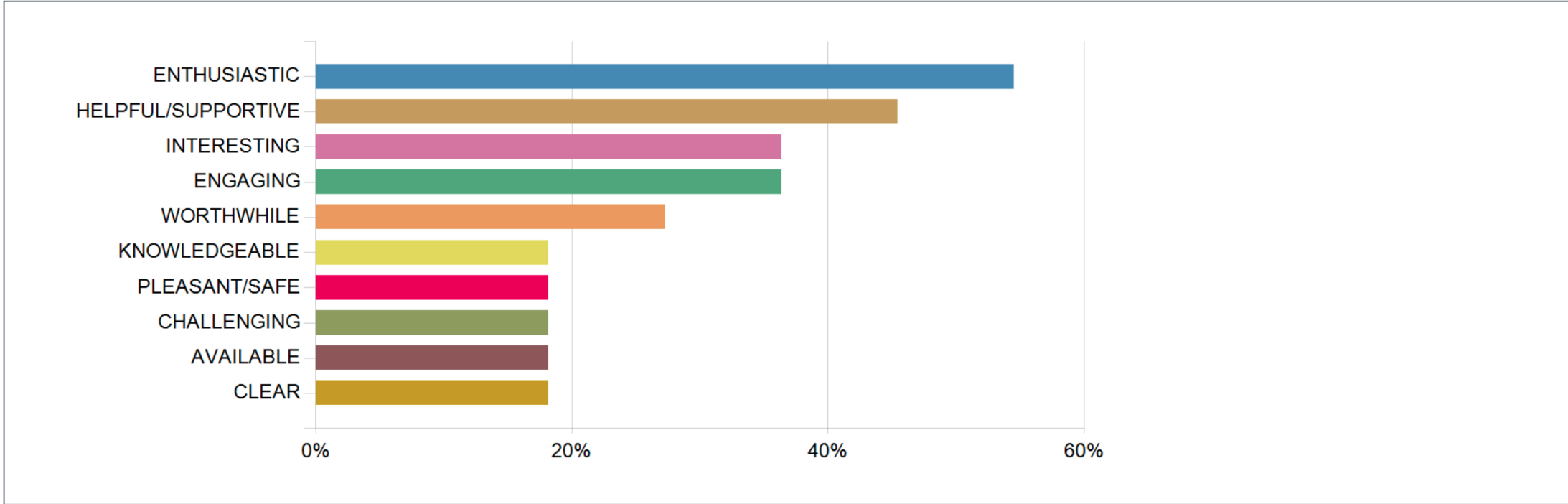
BLUE @ Dal

- Over 20,000 Students
- 4000 courses in over 200 programs
- Approximately 76000 FFO tasks setup in a typical term
- About 2500 courses evaluated
- 2775 instructors evaluated
- Hosted by Explorance
- DIG (Data Integrity Gateway)
- BTA (Blue Text Analytics)



What did your instructor do that helped your learning in this course or clinical setting?

Chart

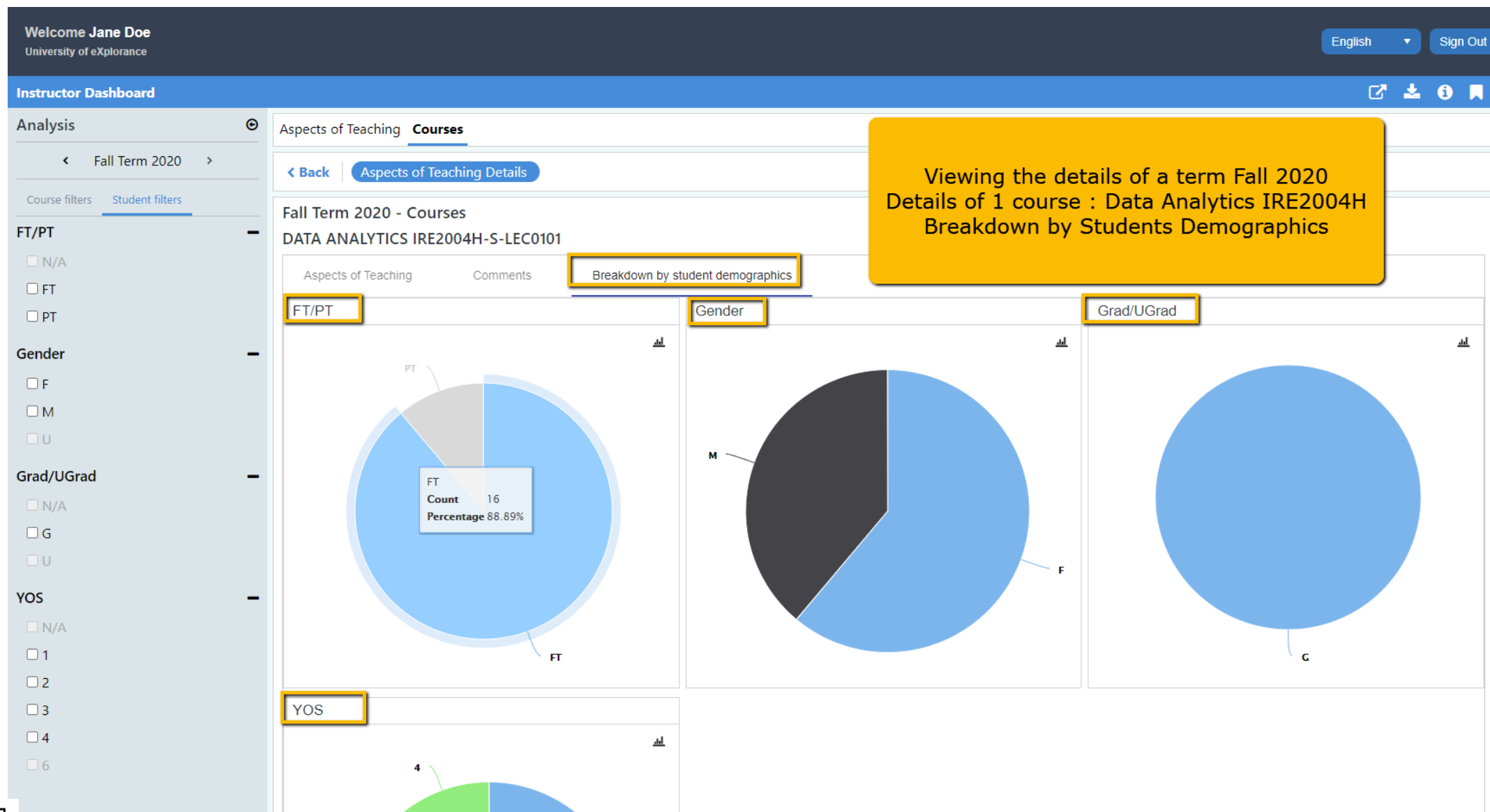


Reporting Considerations

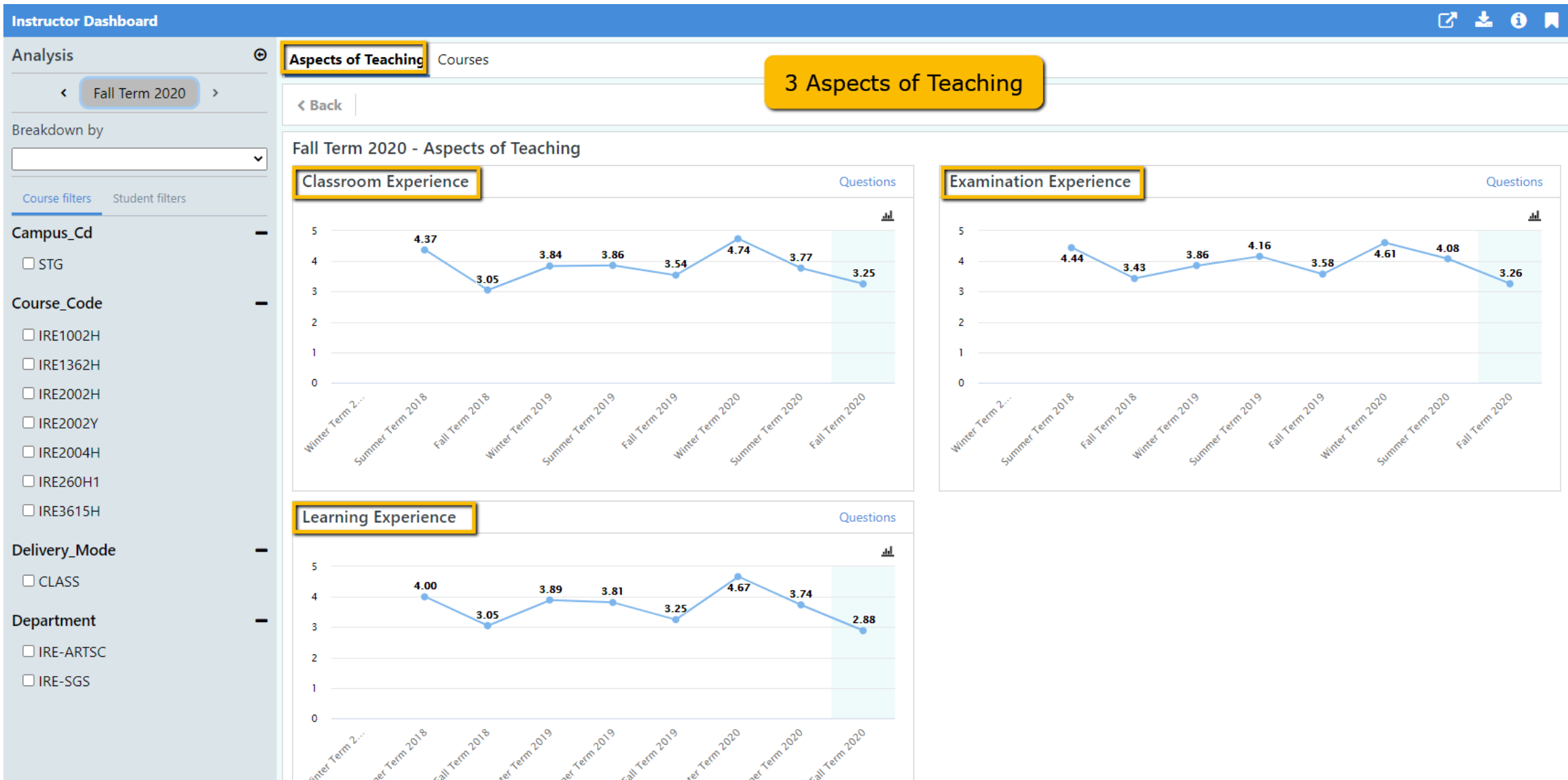
- Break Down of the data
 - demographics
 - course
 - themes
- Comparison of the data
 - by year
 - by term
- Reporting over time
 - Results from one course over time



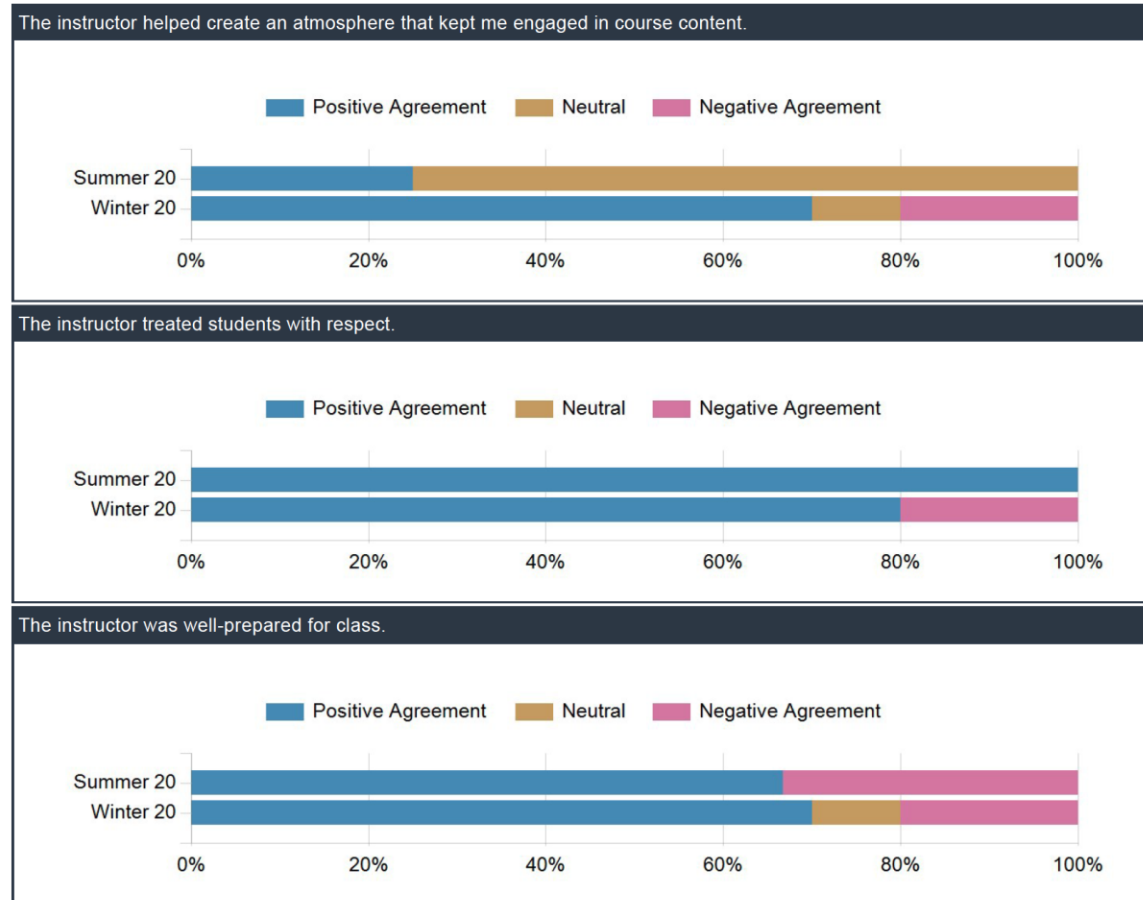
Student Demographics



Aspects of Teaching



Multi-term reporting



Current Reality

- Our university has not approved the use of student demographics in the Blue system. All analysis to our SRI data has been done externally by our Dal Analytics team.
- Our data and current setup does not allow us to take advantage of some of the features shown in the screenshots above.
- We were not able to get funding approved for the Faculty Dashboard add-on.
- We don't currently report BTA at the instructor level.



Next Steps

Future Implications

- How do we form consistent data handling practices across institutions?
- How are institutions and instructors using SRIs for SoTL? (*Interest from multiple participants*)
- How can SRI platforms be leveraged as pathways into SoTL?



Thank you!

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 - Robyn Moore (Robyn.Moore@dal.ca)

