# The Only Constant is Change

Question Personalization at UC Berkeley

# Heraclitus quotes



The only constant is change

No man ever steps in the same river twice

Becoming vs. Being

#### Overview

Question personalization as a means to:







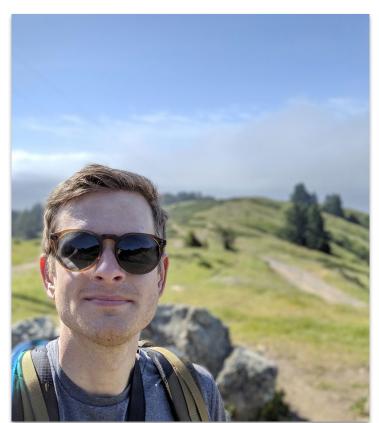
# Obligatory explanations

GSI = Graduate Student Instructor = TA

Course evaluations at Berkeley are mandatory, but it's up to each department to choose how to run them.

Irun the centralized online evaluation service that supports ~65 departments (>80% of enrollments)

Service was first piloted in 2013, and has grown steadily since (I've been in this role since 2016)

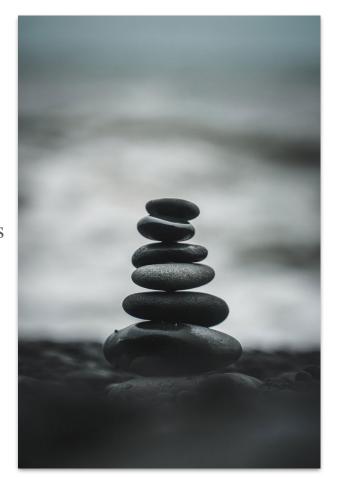




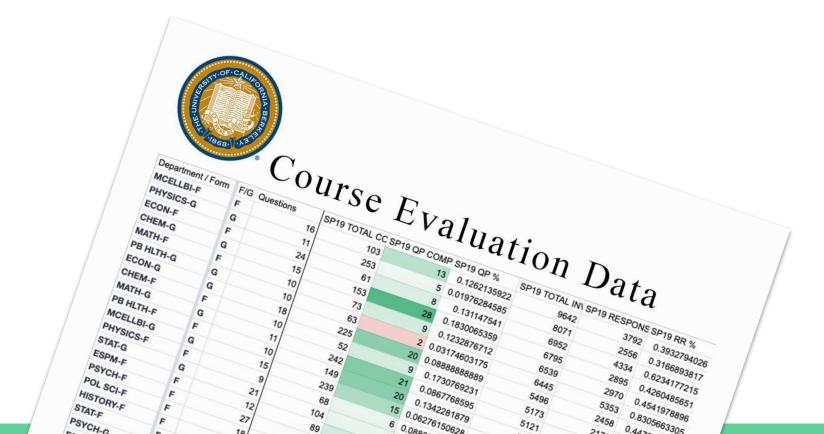


# 1. Empowering Instructors

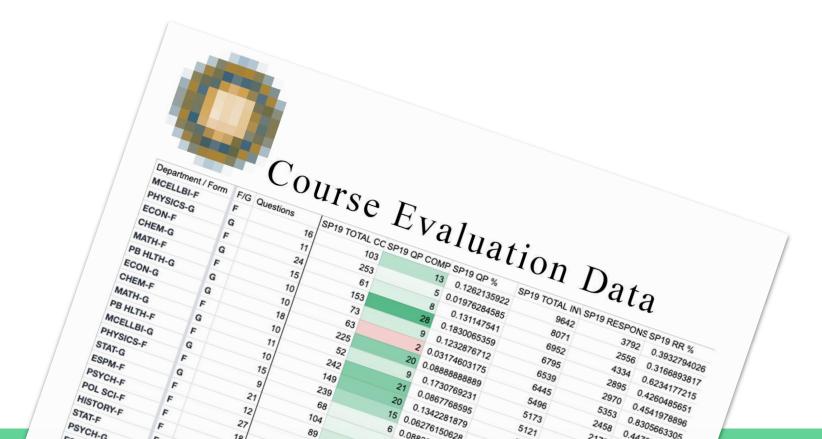
- Lots of pushback against evals at Berkeley
  - Resistance to change
  - Fear of evaluations being used against them
  - Fear of centralization
- Something they couldn't do with paper evaluations
- Shared only with the instructor
  - o Instructor can choose to include it in a portfolio
- May improve response rate?\*



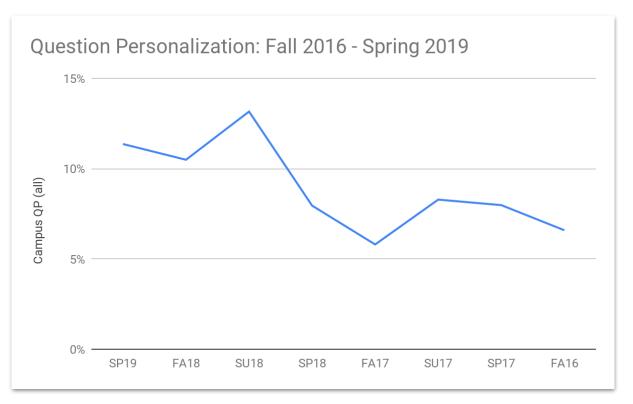
#### Data disclaimer



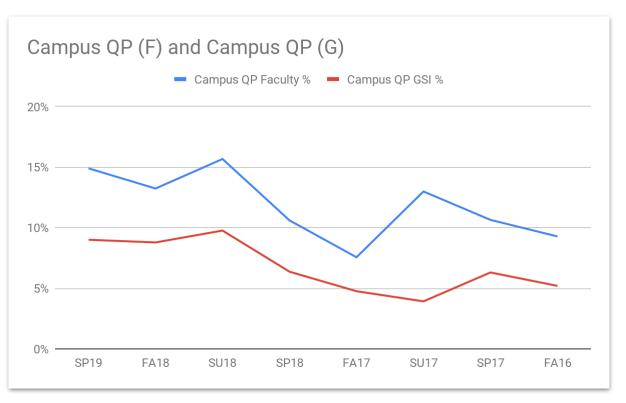
#### Data disclaimer



# How many instructors use QP?



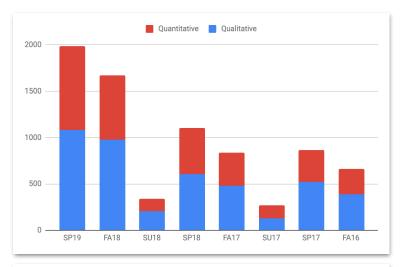
# Faculty vs. Grad Student Instructors (TAs)

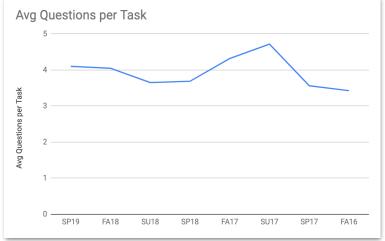


#### Use of QP Continued

Qualitative vs. Quantitative over time

Average number of questions over time





#### How Instructors use QP

Common questions

Supplementing core questions

Re-asking core questions in more specific tern



# Top Users by Department and Instructor Type

Spring 2019		Fall 2018		Summer 2018	
CHEM-G	28	MATH-G	33	MATH-F	7
ANTHRO-G	27	CHEM-G	27	ECON-G	6
MATH-G	21	HISTORY-F	19	PLANTBI-F	6
HISTORY-F	21	PB HLTH-F	19	ENE_RES-F	6
ECON-G	20	COLWRIT-F	17	CHEM-F	5
PB HLTH-F	20	ECON-G	15	DATASCI-F	5
FSSEM-F	17	CHEM-F	14	CHEM-G	4
COLWRIT-F	16	MCELLBI-G	13	COLWRIT-F	4
EA LANG-F	16	MATH-F	13	ENVECON-G	4
MCELLBI-G	15	PSYCH-G	13	ESPM-F	3

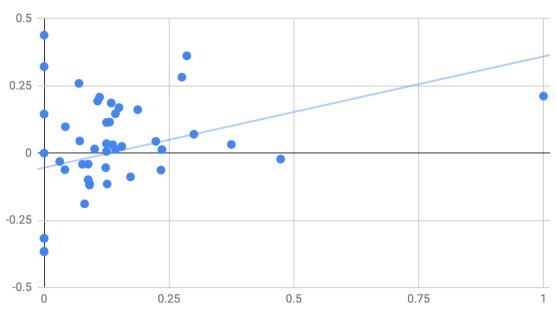
### QP and Response Rates

Is there a link between form length and response rate?

Does this extend to question personalization?

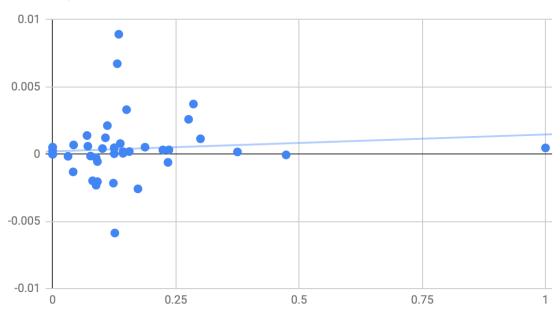
# All departments by term





# All departments by term - weighted

SP19 QP % and SP19 WEIGHTED DEVIATION



### By department over time (8 terms)

#### Strong positive correlation:

- Political Science
- Music
- Math
- Molecular and Cellular Biology

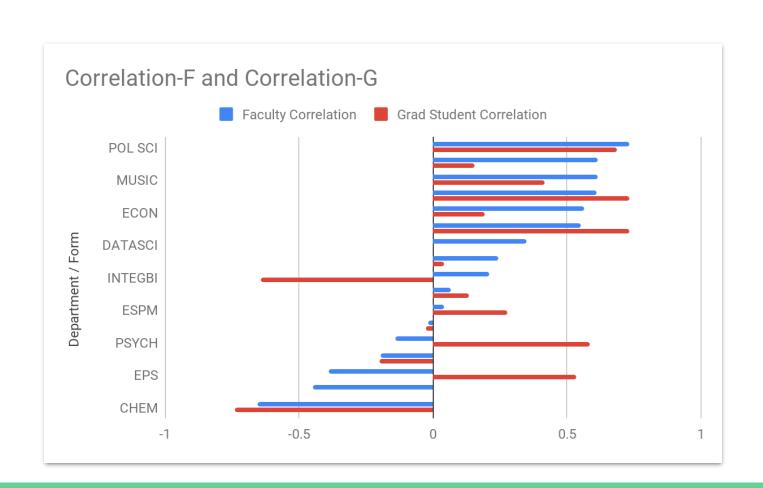
#### Strong negative correlation:

• Chemistry

#### Conflicting:

- Integrated Biology
- Earth and Planetary Science
- Psychology

Department / Form	Faculty Correlation	Grad Student Correlation
POL SCI	0.7310489802	0.6847352943
NUSCTX	0.6142274131	0.1531956249
MUSIC	0.6131630168	0.4160043645
MATH	0.609695963	0.7314909832
ECON	0.5620650784	0.191797462
MCELLBI	0.5516142989	0.7314909832
DATASCI	0.3504655798	
ANTHRO	0.2428064844	0.0428051451
INTEGBI	0.2098438009	-0.6416058519
PHYSICS	0.06812924864	0.1324287986
ESPM	0.04220904738	0.2758590046
PLANTBI	-0.0191922111	-0.02424678607
PSYCH	-0.1405136001	0.5840631248
STAT	-0.1936044016	-0.2000311561
EPS	-0.3899532908	0.5333222183
ETH STD	-0.4497403273	
CHEM	-0.6564724633	-0.7383665548



### 2. Streamline Operations

Encourage departments to use questions that apply to all courses, give them an option for questions that don't

Reduce need to modify department evaluation forms down the road

### 3. Give Departments More Control

What if we weren't responsible for maintaining a question bank at all?



#### Midterm Evaluation Pilot

#### Structure:

- Half instructor qp
- Half department qp
- Instructor questions only go to instructor
- Department questions are reported up

#### How we did it

- Instructor and course QP tasks
  - Not a great fit for co-taught courses
- Department staff completes QP task, and copies questions to all subjects
- Departments can choose to make it optional by not adding any core questions.
  - Evals will only run if an instructor adds questions.

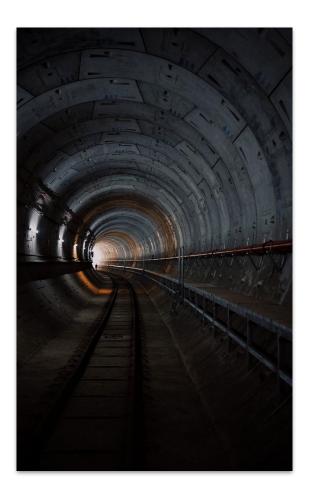
	Group Name	Privileges	Link Type	Group Links To	Edit
0	Students (Automatic Update)	FO	Relationship	Courses	Edit
0	Instructors (Automatic Update)	QP, RV	Link	Instructors	Edit
0	Instructors Linked To Courses (Automatic Update)	SV	Relationship	Courses	Edit
$\circ$	CHAIR	RV	Relationship	Courses	Edit
0	DEPT_ADMIN (Automatic Update)	RV	Relationship	Courses	Edit
0	DEAN	RV	Relationship	Courses	Edit
0	PRIMARY ADMIN (Automatic Update)	QP, RV, SV	Relationship	Courses	Edit
0	Dynamic Report Viewers (Dynamic Viewers)	RV	Organization	Courses	Edit

#### What we've learned

- It's pretty sustainable!
- We haven't yet scaled enough to standardize or build this into our data process
  - There are some policy challenges around standardizing this across campus
- It takes a bit of manual attention (e.g. to make sure all department QP tasks are completed)
- Reports are simple: quick turnaround
- Students expect more, now that they are being asked to provide feedback earlier on
- It's easy to think you've added QP

#### The Future

How can we take this hack and apply it to our main project?



#### Conclusion

Question personalization is a powerful tool for appealing to instructors, if used purpose fully in the instructor's interest

Question personalization can simplify complex projects by delegating what would otherwise need to have been managed centrally

We envision a bright future of delegating everything, in order to empower departments and programs

#### Questions

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