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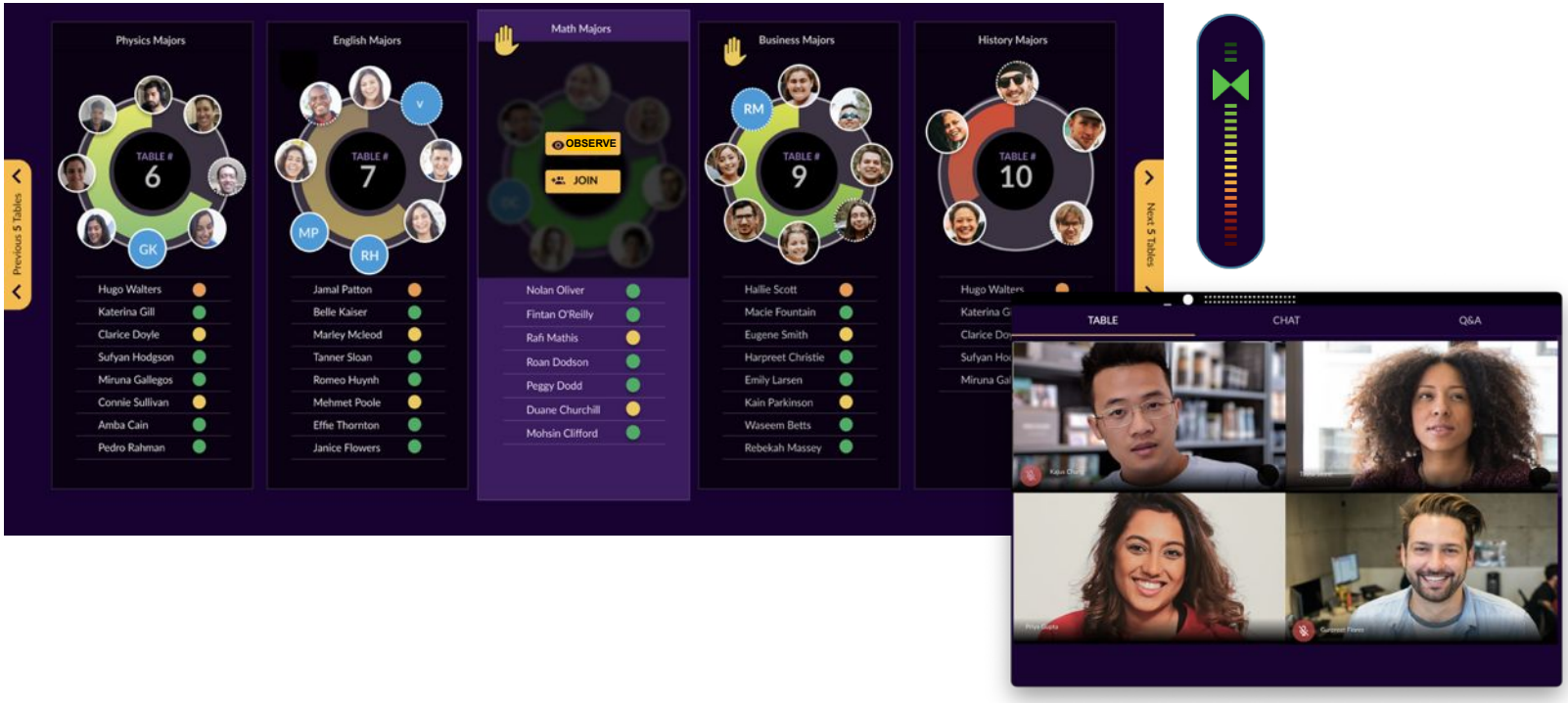
“ספר לי ואשכח.
למד אותי ואזכור.
שתף אותי ואלמד”

בנג׳מין פרנקלין

העולם משתנה
למידה דיגיטלית כאן להישאר

גמישות, שיתופיות ומעורבות
מובילות ללמידה אפקטיבית ותוצאות טובות יותר



מעורבות פעילה (engagement) מנבאת הצלחה בלמידה

(Soffer & Cohen, 2019)

Meaningful and inspiring activities

+

Instructor guidance and feedback

=

Better Learning Outcomes

למידה פעילה

למידה שיתופית

מעורבות מבוססת נתונים

סביבת למידה מכלילה

גמישות בהוראה ולמידה

- סינכרונית
- אסינכרונית
- היברידית

Meet the
ENGAGERS

Dan Avida, Co-Founder & CEO

- Opus Capital - General Partner, led early-stage investments in companies including SolarEdge, Inc. (NASDAQ: SEDG)
- Decru - Co-Founder and CEO - Led company from inception to acquisition.
- EFI - Chairman and CEO - Led development of flagship Fiery product from its inception. During his CEO tenure company achieved market capitalization of over $3B
- B.Sc. in Computer Engineering from Technion, the Israel Institute of Technology, summa cum laude.

Serge Plotkin, Co-Founder, CTO & VP of Engineering

Serge is an Emeritus professor at Stanford University. He joined Stanford Computer Science faculty after completing his PhD at MIT and taught there for more than 25 years. Serge co-founded Decru in 2001 with Dan, where he served as Chief Technology Officer and Vice President of Engineering. Serge has published more than a hundred technical papers and has been issued fourteen patents.

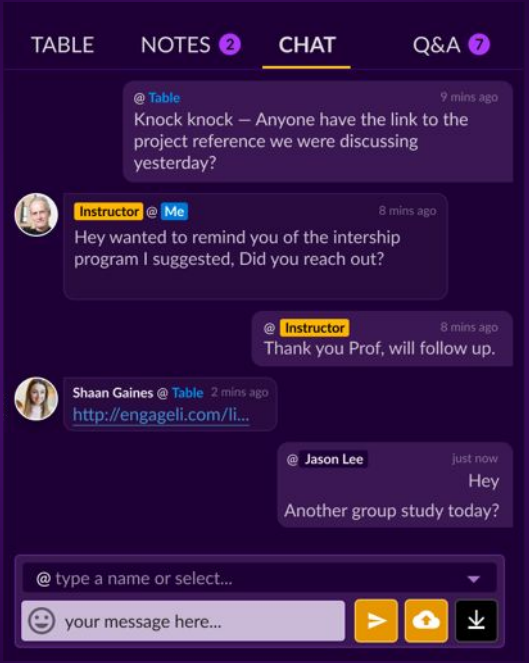
Daphne Koller, Co-Founder & Board Member

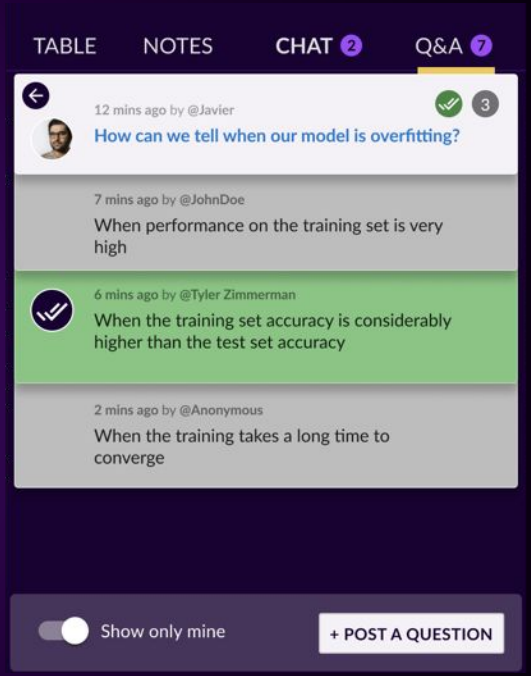
Daphne is an Adjunct Professor of Computer Science at Stanford University where she served on the faculty at Stanford for 18 years. She is a MacArthur Fellowship recipient and a member of the National Academy of Engineering and the American Academy of Arts and Sciences. She co-founded Coursera, one of the world's largest online education platforms & Insitro, an ML enabled drug discovery company.

למידה פעילה ושיתופית בשולחנות עגולים

למידה מבוססת שאלות

- Chat encourages non-intrusive interactions during the class
- Separate feed for Q&A with question ranking and instructor answer validation





Lazonder AW, Harmsen R. Meta-Analysis of Inquiry-Based Learning: Effects of Guidance. Review of Educational Research. 2016;86(3):681-718. doi:10.3102/0034654315627366

מחברת אינטראקטיבית מקושרת להקלטות השיעורים

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Notes for class U-STAT-103

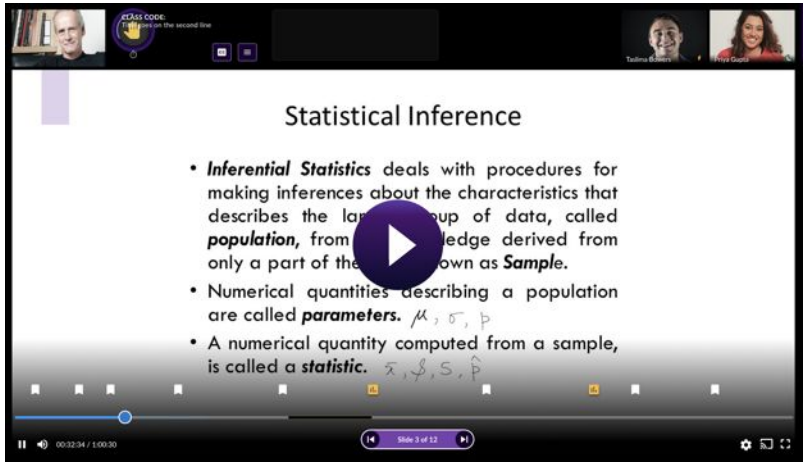
with the instructor John Doe on 3/16/2021, 10:30 AM

9:23 AM Follow up with prof. after class on the project table group and how to get access to Engageli table group for project collaboration.

9:29 AM

Statistical Inference

- ***Inferential Statistics*** deals with procedures for making inferences about the characteristics that describes the larger group of data, called ***population***, from the knowledge derived from only a part of the data, known as ***Sample***.
- Numerical quantities describing a population are called ***parameters.*** μ, σ, p
- A numerical quantity computed from a sample, is called a ***statistic.*** $\bar{x}, \hat{\mu}, s, \hat{p}$



Clicking on a note replays class at the time when the note was taken

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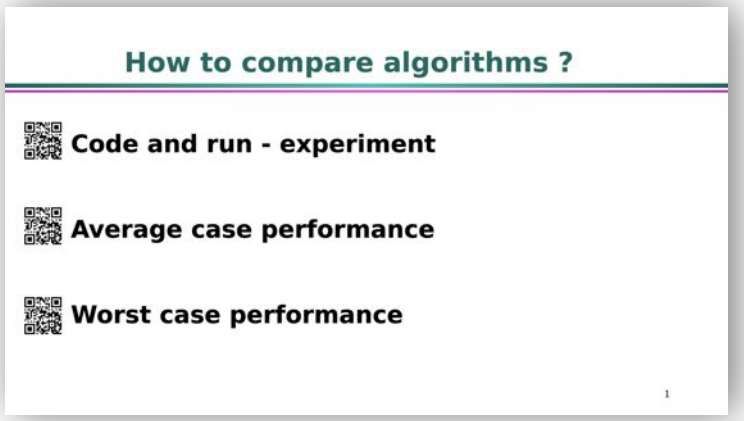
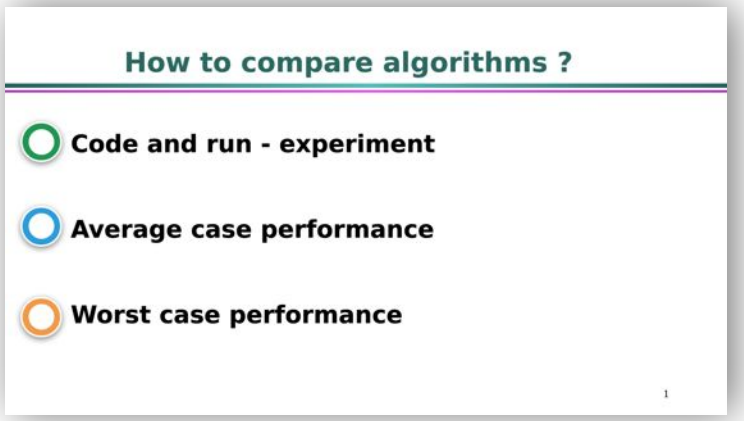
שאלות סקר ללא צורך בכלי עריכה ייחודי

Instructor slide



Student View



קל ליצור שאלות סקר באמצעות השקפים שלכם

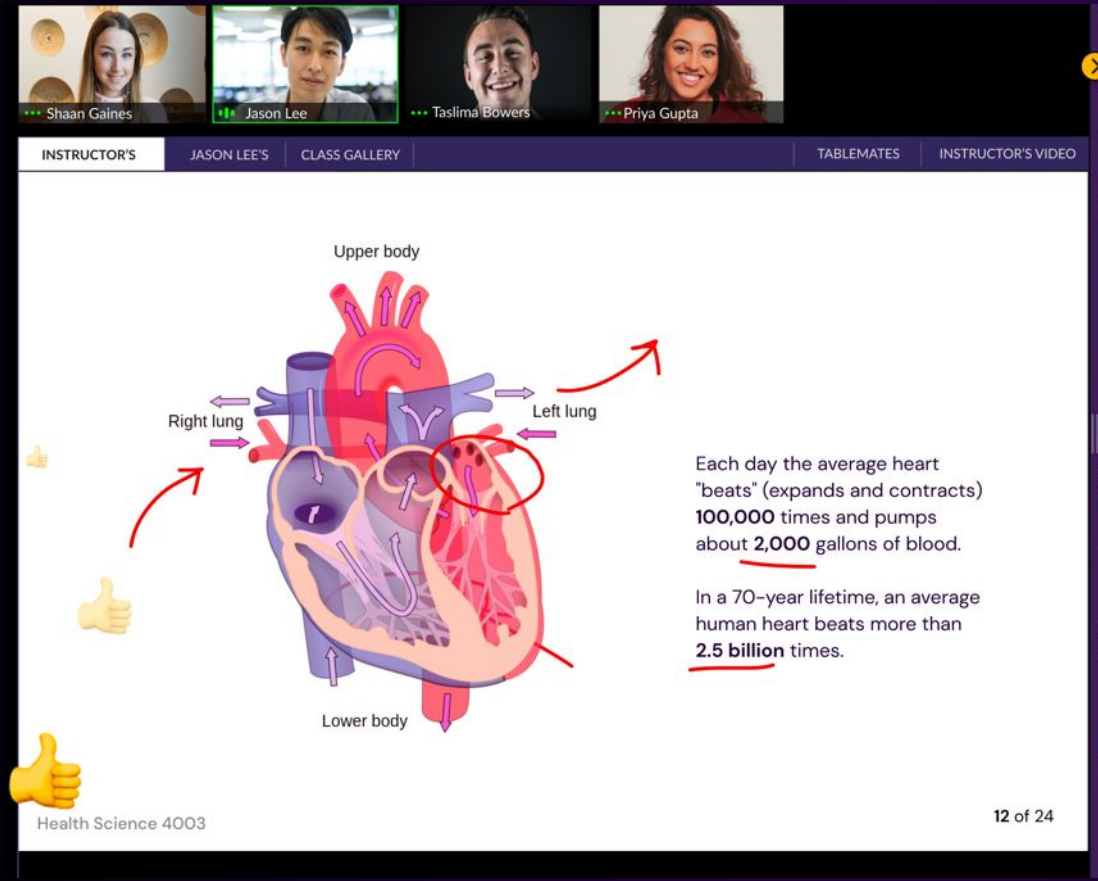
פשוט "הדביקו" את הסימנים לפי סוג השאלה

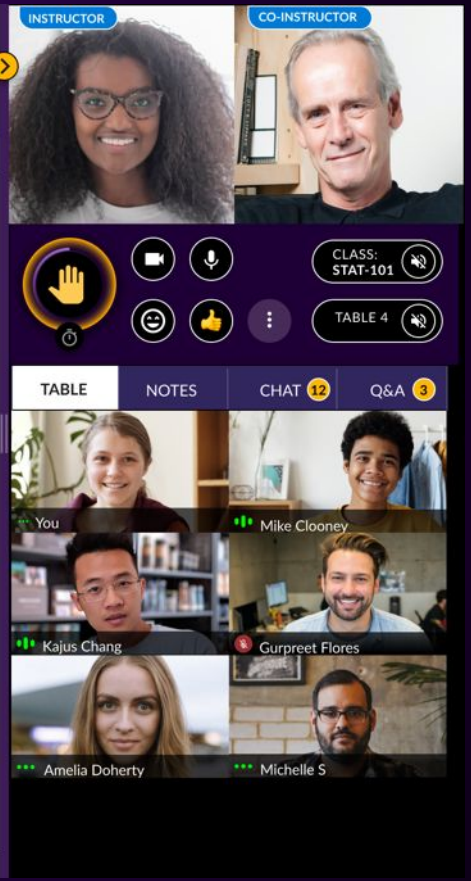
מספר תשובות נכונות

תשובה אחת נכונה

ענן מלים

תמיכה בהנחיה משותפת





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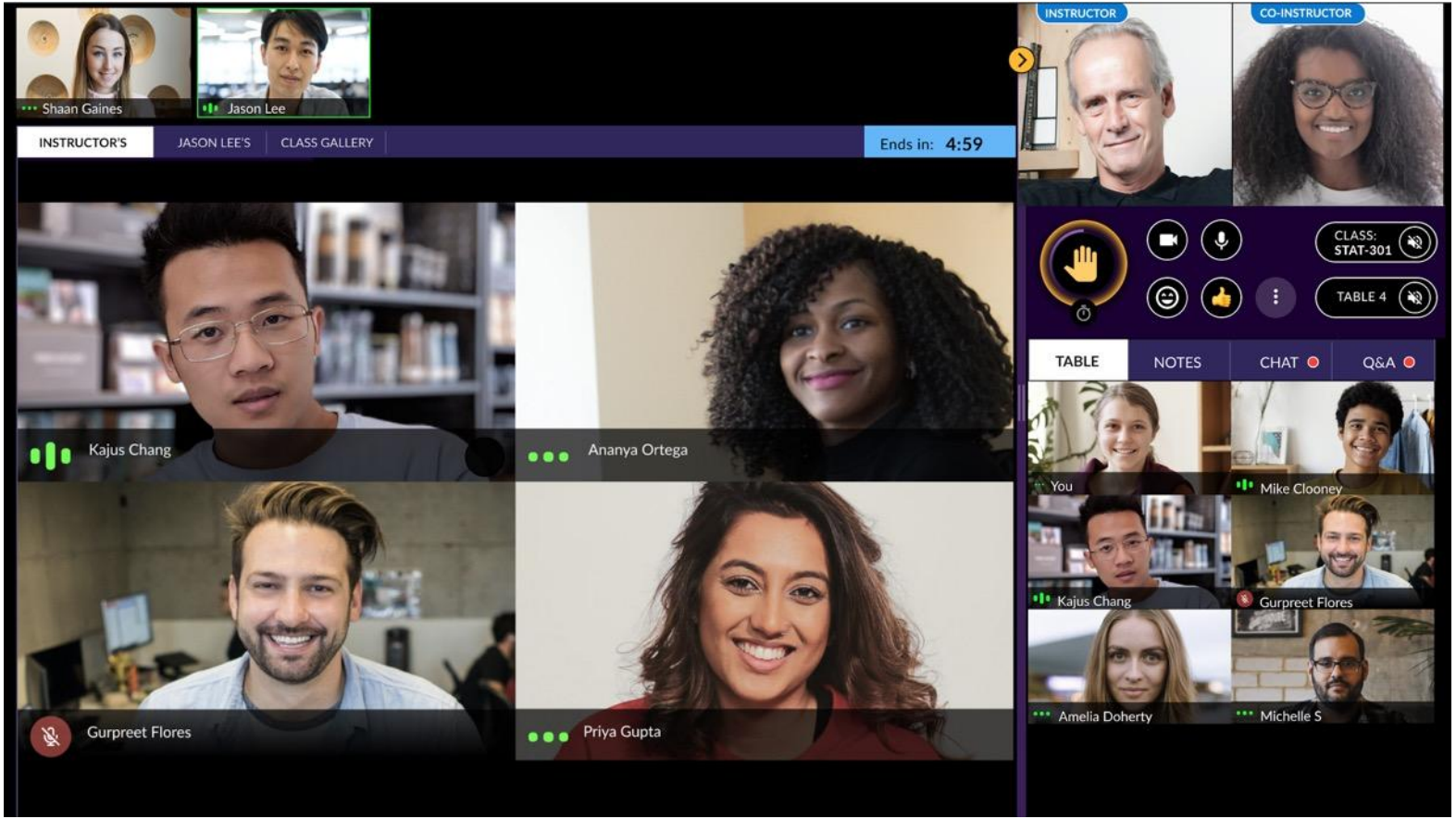
פאנל סטודנטים גמיש ודינמי



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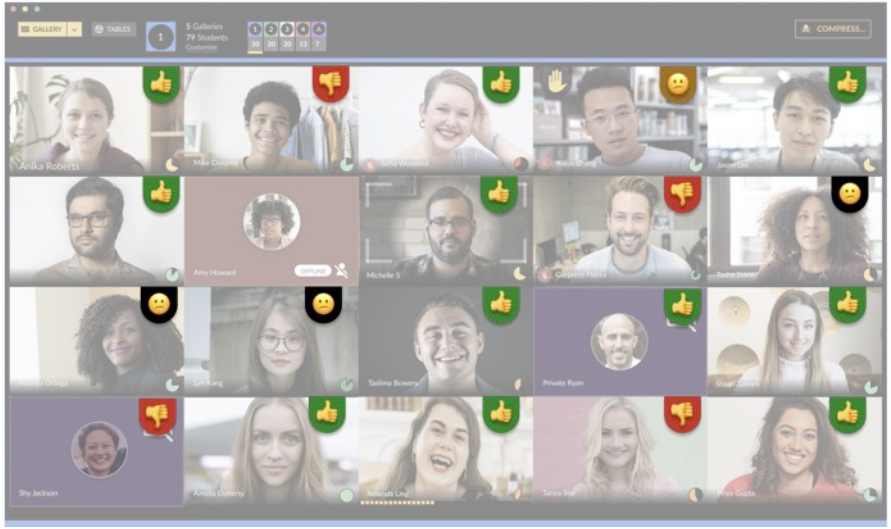
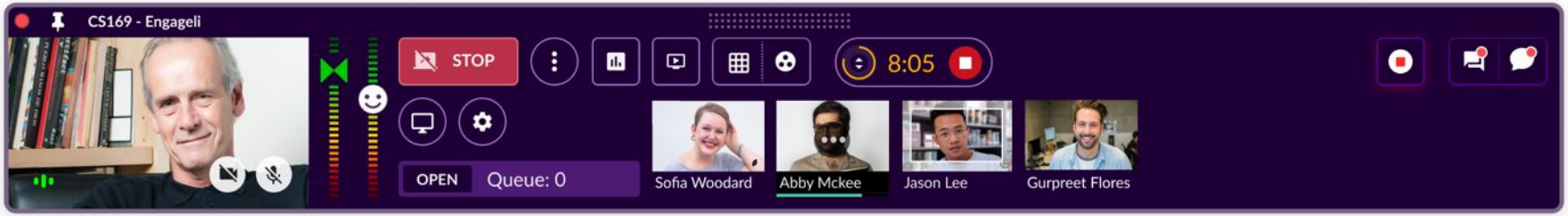
נתונים בשירות הלמידה

תגובות ו"רגשונים" ניתנים בזמן אמת כמשוב מיידי מהסטודנטים ומסייעים לקבלת החלטות פדגוגיות.





Class engagement summary with student feedback & sentiment reactions

כלי ניהול כתה מתקדמים ומבוססי נתונים

- כלים חכמים אך פשוטים לניווט
- תצוגה מוקדמת של שיתוף המסך
- אנליטיקות של נתוני השתתפות ומשוב מהסטודנטים בזמן אמת
- פודיום עם תובנות לסטודנטים פעילים
- טיימר לטובת פעילויות למידה

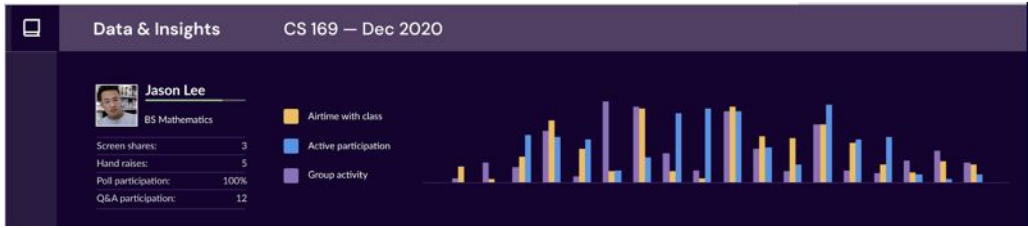
תובנות מבוססות נתונים על מעורבות ולמידה

Device & Connectivity

- IP address
- Location based on IP address
- Device used to attend the class
- Measured connectivity speeds
- Browser type and versions
- Disconnects and rejoins
- Battery level (when applicable)

Active learning

- Question asked
- Answer to questions provided by student
- Answer to questions provided by TA
- Answer to questions provided by instructor
- Question voted up/down
- Answer voted up/down
- Screenshot annotated
- Notes taken during the class



Detailed per student activity reports

Social & Collaboration

- Enter and exit focus mode
- Turn camera off and on
- Mute/unmute
- Chat sent
- Question or answer posted
- Use of mobile vs use of desktop time breakdown
- Student raised hand to address class
- Student shared desktop with table
- Student shared desktop with class
- Feedback sent to instructor
- Time student logged in to the system
- Time spend with classmates prior to class start
- Time spend with classmates after class ended
- % of time connected during the instruction period
- % of time on mobile device screen

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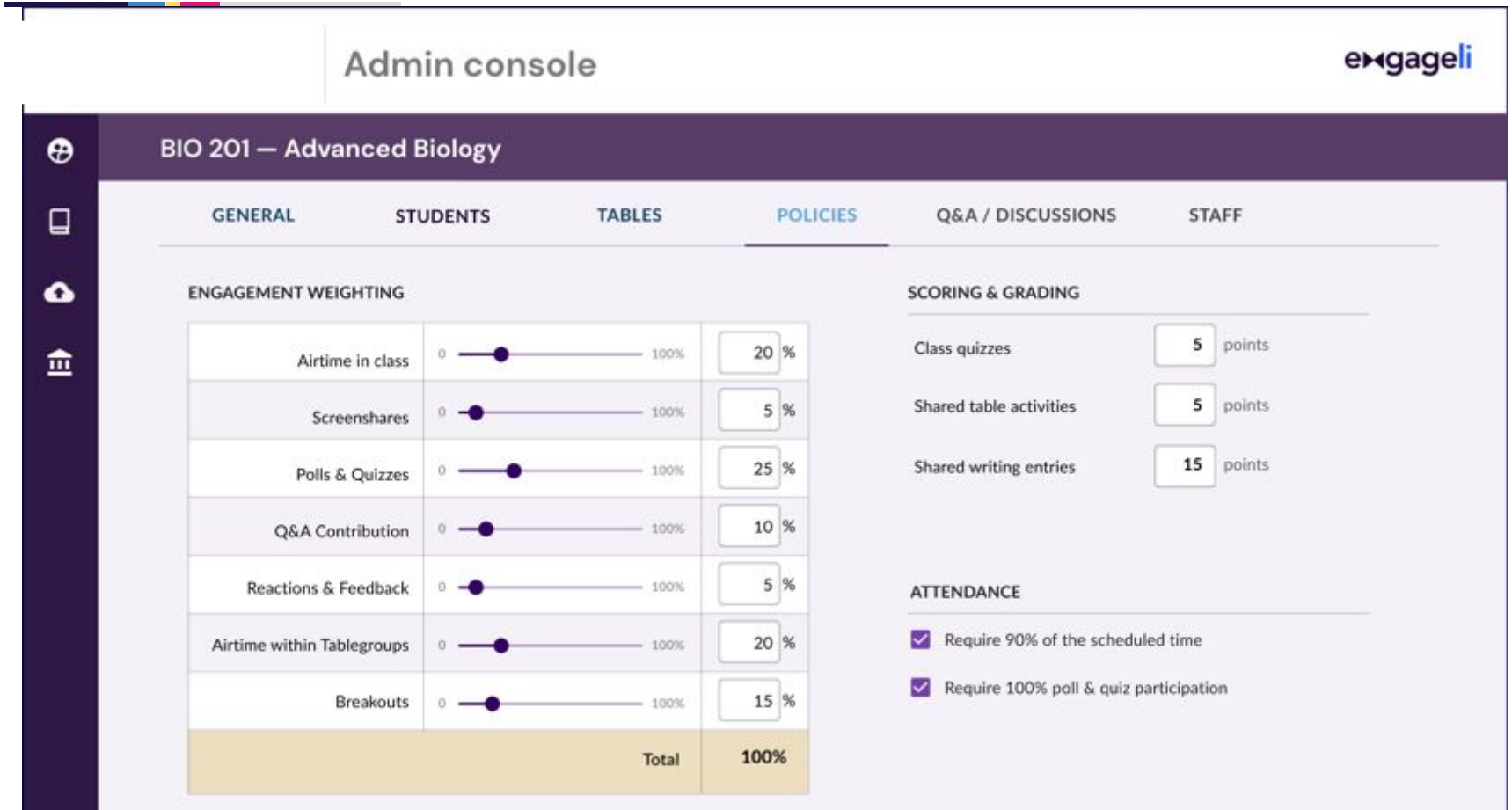
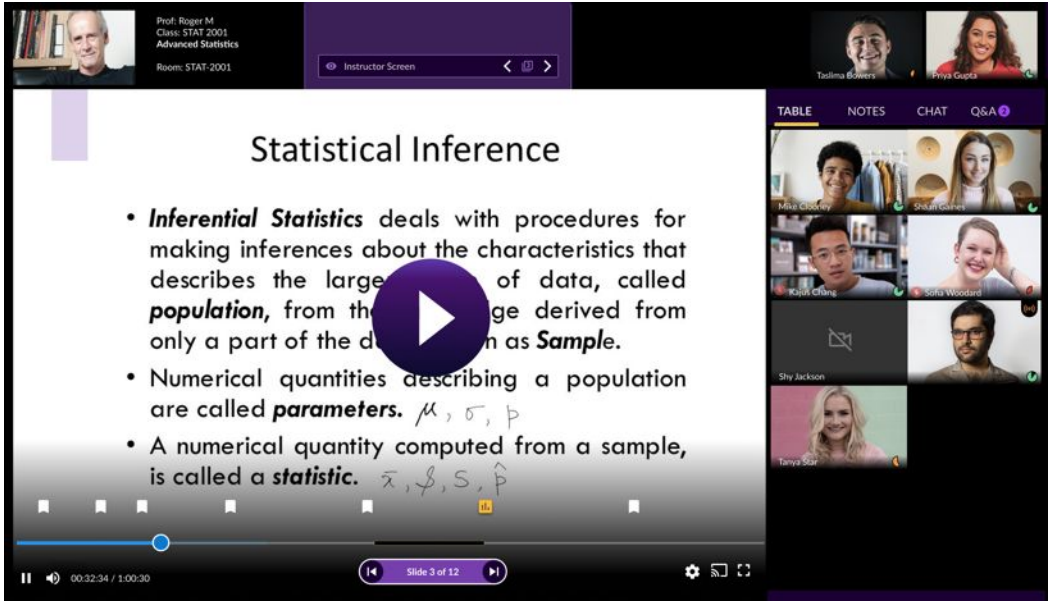
מדדים גמישים להערכה משמעותית



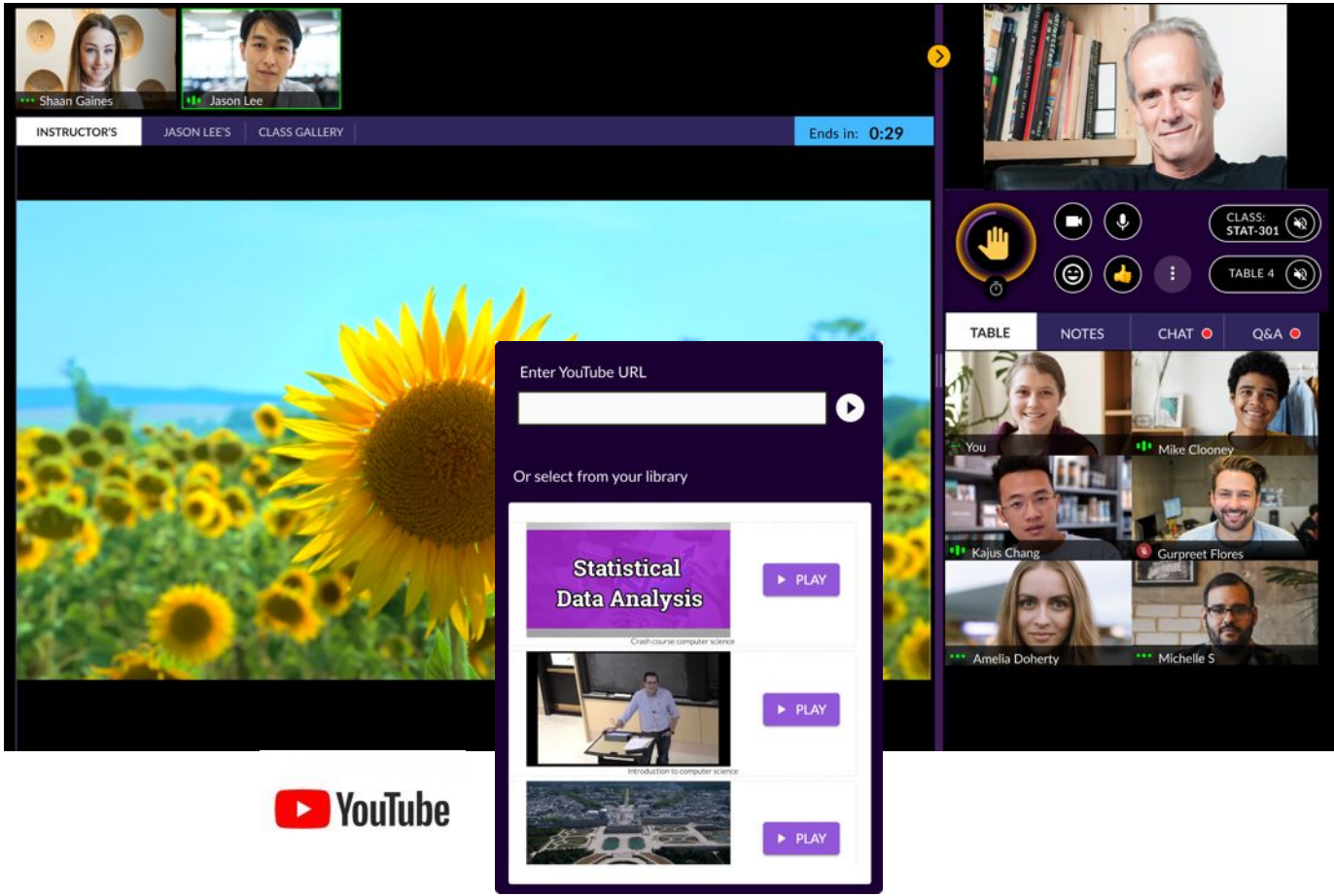
למידה שיתופית בסביבה א-סינכרונית



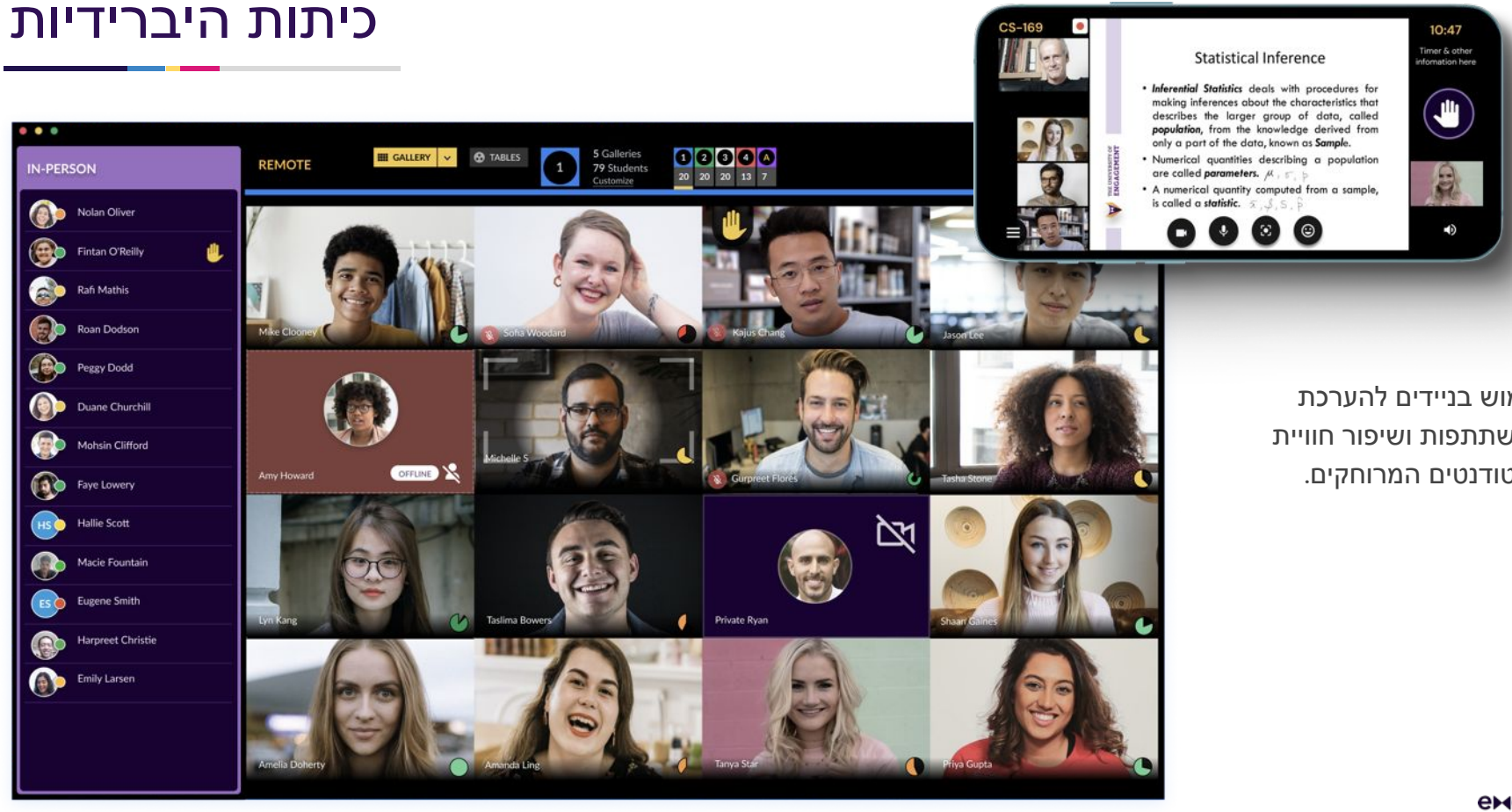
- Ability to watch the recording as a group
- Time-synced notes with links to class recording segments
- Interactive polls and quizzes mimics synchronous experience
- Privacy settings for student videos in recordings
- Jump to next and previous slides within the recording
- Time-synced notes with links to class recording segments

שיתוף וידאו באיכות גבוהה

- High quality videos streaming directly to students
- Voice over, pause and fully controlled by the instructor
- Uploaded or stream directly from YouTube.



כיתות היברידיות



שימוש בניידים להערכת ההשתתפות ושיפור חוויית הסטודנטים המרוחקים.

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נשמח להשיב על שאלות

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