



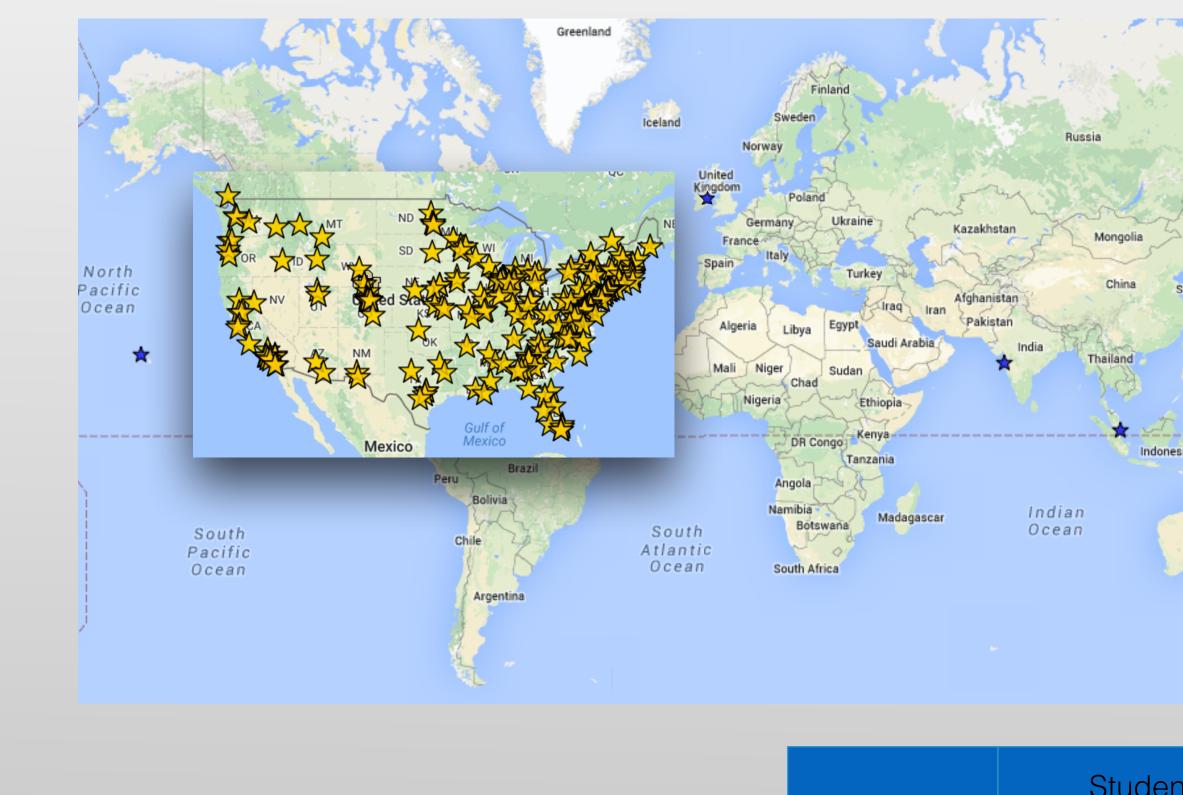
UNIVERSITY OF COLORADO BOULDER

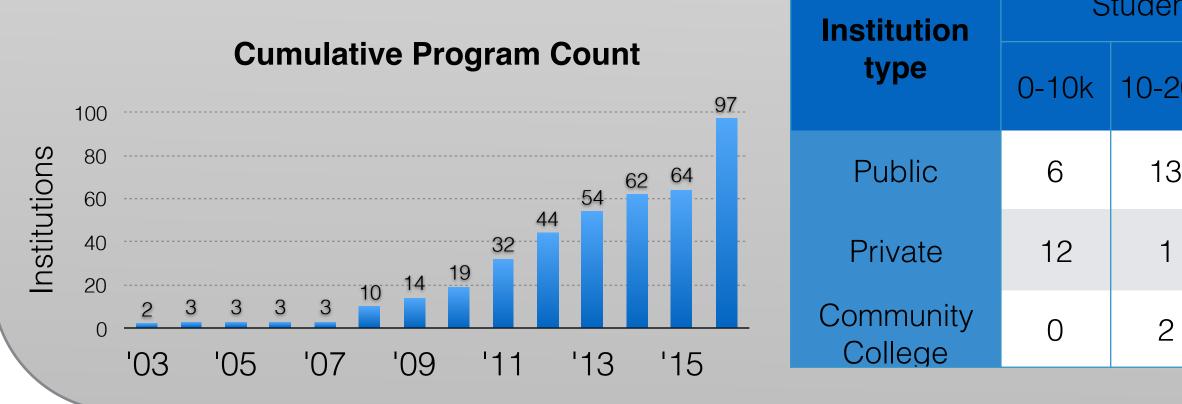


- (1) How do LAs impact the amount of physics that students learn? (Efficacy)
- (2) How do LAs impact the equality of physics learning? (Equity)

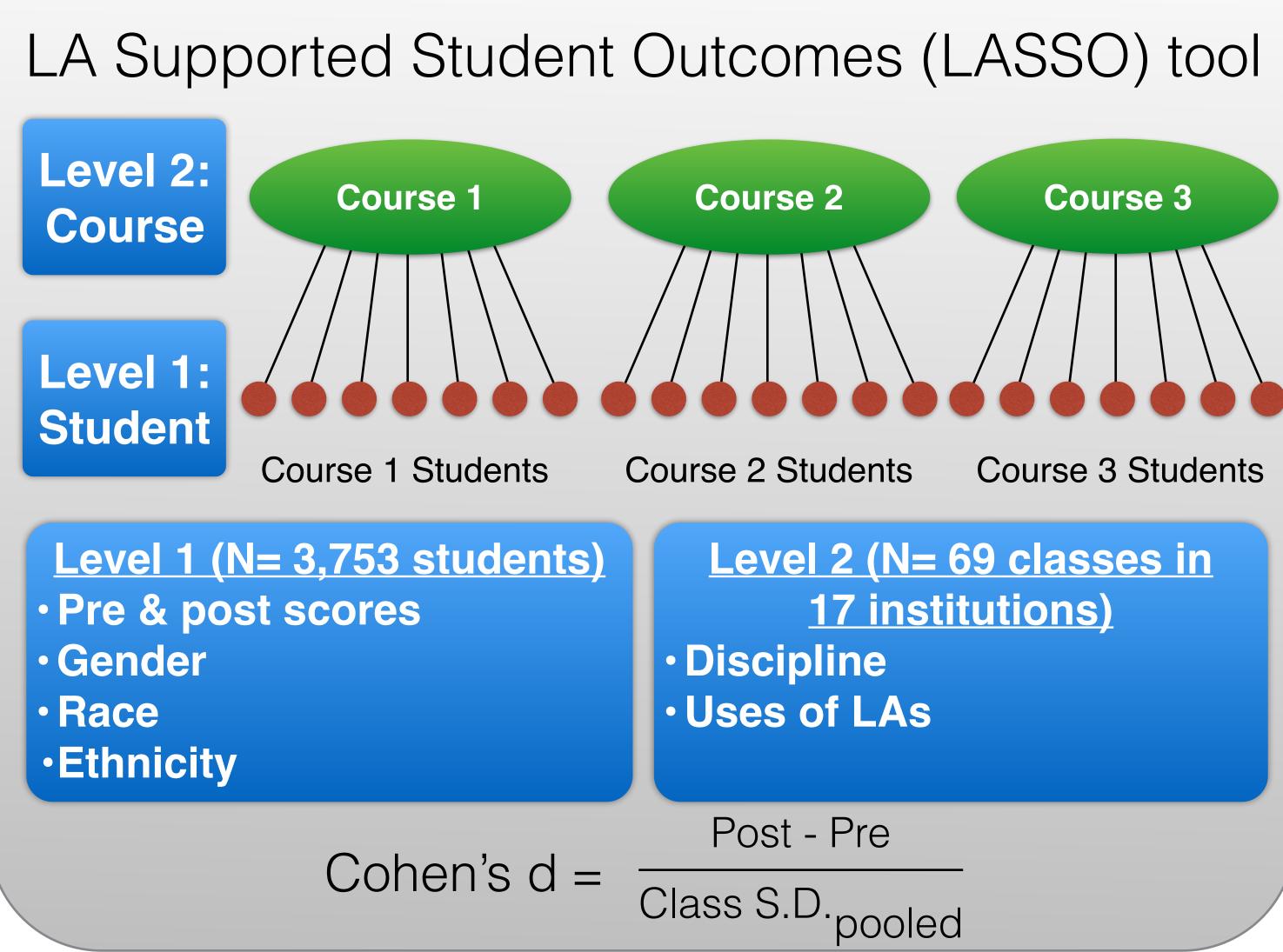
The LA Alliance

Learning Assistants are undergraduate students who are hired by university faculty to help transform undergraduate courses to include small groups of students articulating, defending, and modifying their ideas about relevant problems or phenomena.





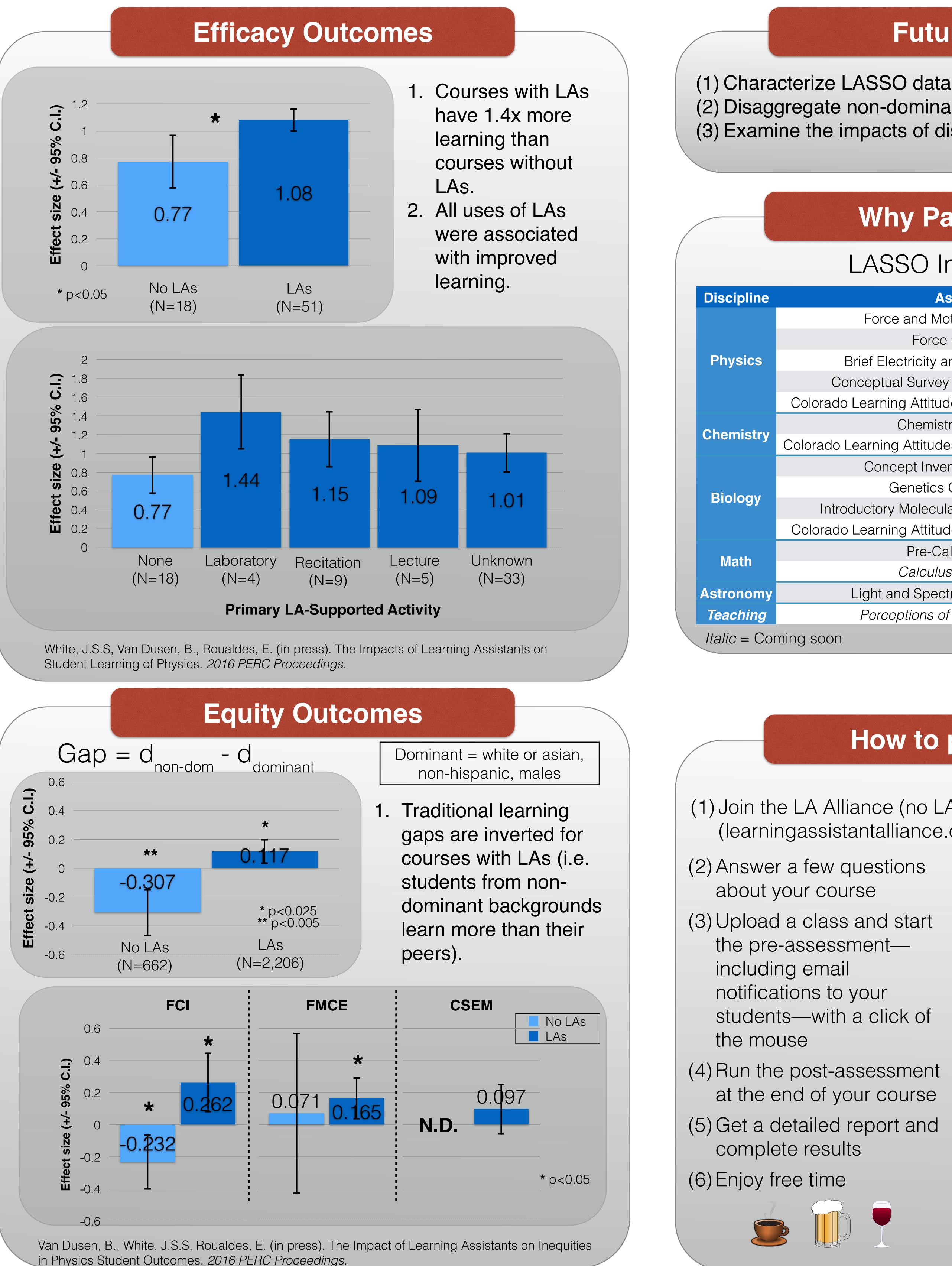
Data Collection/Analysis

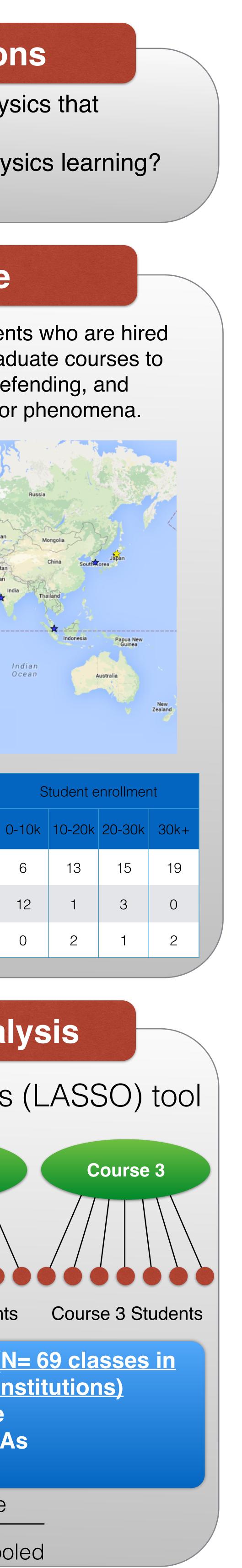


Learning Assistant (LA) Model Toward Efficacy and Equity When Implementing LAs in Physics

Ben Van Dusen, Jada-Simone White, and Edward Roualdes - California State University, Chico Valerie Otero & Laurie Langdon, University of Colorado Boulder <u>bvandusen@csuchico.edu</u>

0.77 No LAs (N=18) 1.44 0.77 None Laboratory (N=18) (N=4)











Future Work

(1) Characterize LASSO data with nationally normed data (2) Disaggregate non-dominant status (3) Examine the impacts of disciplinary LA practices

Why Participate?

LASSO Instruments

Assessment (Fall '16) Force and Motion Concept Evaluation (FMCE) Force Concept Inventory (FCI) Brief Electricity and Magnetism Assessment (BEMA) Conceptual Survey of Electricity and Magnetism (CSEM) Colorado Learning Attitudes about Science Survey - Physics (CLASS) Chemistry Concept Inventory (CCI) Colorado Learning Attitudes about Science Survey - Chemistry (CLASS) Concept Inventory of Natural Selection (CINS) Genetics Concept Assessment (GCA) Introductory Molecular and Cell Biology Assessment (IMCA) Colorado Learning Attitudes about Science Survey - Biology (CLASS) Pre-Calculus Assessment (PCA) Calculus Concept Inventory (CaCI) Light and Spectroscopy Concept Inventory (LSCI) Perceptions of Teaching as a Profession (PTAP)

How to participate

(1) Join the LA Alliance (no LAs required!) (learningassistantalliance.org)

(2) Answer a few questions about your course

(3) Upload a class and start

students—with a click of

at the end of your course

(5) Get a detailed report and



