renewing teaching & learning...

leveraging mobility for student engagement

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Honors College Fellow
Abilene Christian University
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<th>RELATION</th>
<th>PERSONAL DESCRIPTION</th>
<th>NATIVITY</th>
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Notes: [Details for each individual's personal description, nativity, and citizenship.]

Supervisor's District No. 4
Enumeration District No. 15-1
connection
connection

structural  social  cultural
are our classrooms offering productive connections?
Marshall McLuhan

The Gutenberg Galaxy 1962
Understanding Media 1964
The Medium is the Message 1967
technologies are extensions of the self

“We’re always living way ahead of our thinking…”
“canon” by FunTwo
the new production studios
Facebook
140,000,000,000

Facebook

+1,000,000%
pompeii

photo courtesy of Wikimedia
pompeii
Crystal structure of a monomeric retroviral protease solved by protein folding game players

Firas Khatib1, Frank DiMaio1, Foldit Contenders Group, Foldit Void Crushers Group, Seth Cooper2, Maciej Kuzmiczek3, Miroslaw Gilski3, Szymon Krzywda4, Helena Zabranska4, Iva Pichova5, James Thompson1, Zoran Popovic2, Mariusz Jaskolski1,4 & David Baker1,6

Following the failure of a wide range of attempts to solve the crystal structure of M-PMV retroviral protease by molecular replacement, we challenged players of the protein folding game Foldit to produce accurate models of the protein. Remarkably, Foldit players were able to generate models of sufficient quality and fit to produce a high-quality protein structure. Subsequent structure refinement and subsequent structure

Structure Prediction (CASP) experiment was an ideal venue in which to test this. CASP is a biennial experiment in protein structure prediction methods in which the amino acid sequences of structures that are close to being experimentally determined—referred to as CASP targets—are posted to allow groups from around the world to predict the native structure (http://predictioncenter.org/casp9/). Each group taking part in CASP is allowed to submit five different predictions for each sequence. Foldit participated as an independent group during CASP9 and made predictions for the targets with fewer than 165 residues that the CASP organizers did not indicate as oligomeric. For targets with homologs of known structure—the Template-Based Modeling category—Foldit players were given different alignments to templates predicted by the HHpred server3 via the new Alignment Tool. Despite these new additions to the game, the performance of Foldit players over all CASP9 Template-Based Modeling targets was as good as those of the best-performing methods, which made better use of information from homologous structures; extensive energy minimization used by Foldit players tended to perturb peripheral portions of the protein, inviable in homologs.
curing AIDS...
communal creation...
communal creation...
participative authority…
participative authority...

more access yields more participation
participative authority...

1. more access yields more participation
2. more participation yields more custodianship
participative authority...

1. more access yields more participation
2. more participation yields more custodianship
3. more custodianship yields more diversity
participative authority...

more access yields more participation

more participation yields more custodianship

more custodianship yields more diversity

more diversity yields more access
participative authority…

1. more access yields more participation
2. more participation yields more custodianship
3. more custodianship yields more diversity
4. more diversity yields more access
a widening gap...
Charles Eames

Eames Chair 1946
IBM Pavilion, NY World’s Fair 1964
“Powers of Ten” 1977
charles eames
Design is a plan for arranging elements in such a way as best to accomplish a particular purpose…

charles eames
isolated spaces designed for rhetorical questions
\[
x-10 \quad \frac{4}{(x+2)} = \frac{-3x-14}{x(x+2)}
\]
\[
R(x+y) = \frac{2}{z-x}
\]
simulated answers...
those questions presume a static world...
“Never again is someone going to pay you to give them answers they can look up online. They’ll only pay you to solve problems that don’t yet have answers.”
classroom structure

classroom structure

classroom structure

control

&

isolation

&
my desk

the standard model...
their desk

the standard model...
5,000 hours

50 hours ×
25 students ×
4 courses
banning tools
a changing formula...
ingenuity

ingenuity
a changing formula...

\[ \left( \frac{r + c}{x} \right)^t = \text{ingenuity} \]
a changing formula...

\[
\left(\frac{r + c}{x}\right)^t = \text{cheating}
\]
a changing formula...

\[ \left( \frac{r + c}{x} \right)^t \]
antiquated paradigms...
the future…
does portability
the future...

equal mobility?
portability v. mobility…
carriable  unplugged  long-term  unwired  unsituated
antiquated futures
mobile learning? empowerment?
Frederick W. Taylor

Principles of Scientific Management 1911
expectations for students...
expectations for students...

attendance compliance uniformity
monocultures…

the cavendish banana
why 1-to-1?
mobile futures
more facets...
karl marx
“From each according to his ability to each according to his need...”
We go to the moon [...] and do these other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills...
think
create
publish
What should your community produce?
how should your community produce?
where should your community produce?
iReporters making a difference

You don’t have to be a celebrity activist like Demi Moore or Ashton Kutcher to make a difference in the fight to end slavery. Meet three iReporters who are doing their part.

About this project

This year CNN will join the fight to end modern-day slavery and shine a spotlight on the horrors of modern-day slavery, amplify the voices of the victims, highlight success stories and help unravel the complicated tangled of criminal enterprises trading in human life. A PROBLEM THAT CAN’T BE IGNORED | MORE ABOUT THE PROJECT

Nepal’s Stolen Children

Actress Demi Moore partners with CNN Freedom Project for a
the future...
faculty students community
faculty students community
a new paradigm...

location

location

location

location

location
a new paradigm...

connection
connection
connection
connection
a new model...

linearity
isolation
hierarchy
simulation
a new model...

recursivity
connection
community
engagement
the new classroom...
thank you.

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twitter