

An abstract graphic consisting of numerous overlapping, thin white circles of varying sizes, creating a sense of motion and complexity. It is positioned behind the main text on a solid green background.

Transformar

A EDUCAÇÃO ESTÁ EM EVOLUÇÃO

Transformar

A EDUCAÇÃO ESTÁ EM EVOLUÇÃO

Aprendizagem mão na massa

Hands-on learning



Palco Verde
Green Stage

- 7 – Áudio Original (Original Audio)
- 8 – Áudio Português (Portuguese Audio)
- 9 – Áudio Inglês (English Audio)



Transformar

A EDUCAÇÃO ESTÁ EM EVOLUÇÃO

Aprendizagem mão na massa

Hands-on learning

Paulo Blikstein

Universidade de Stanford/FabLab@School (EUA)

Stanford University/FabLab@School (USA)

O Movimento Maker, Fablabs e Educação

Paulo Blikstein

@pauloblikstein, #fablearn



Transformative Learning
Technologies Lab

Stanford GRADUATE SCHOOL OF
EDUCATION



**Shima
Salehi**



**Richard
Davis**



**Tamar
Fuhrmann**



**Marcelo
Worsley**



**Claire
Rosenbaum**



**Bertrand
Schneider**



**Alicja
Zenczykowska**



**Engin
Bumbacher**



**Nancy
Otero**



**Andrew
Martin**

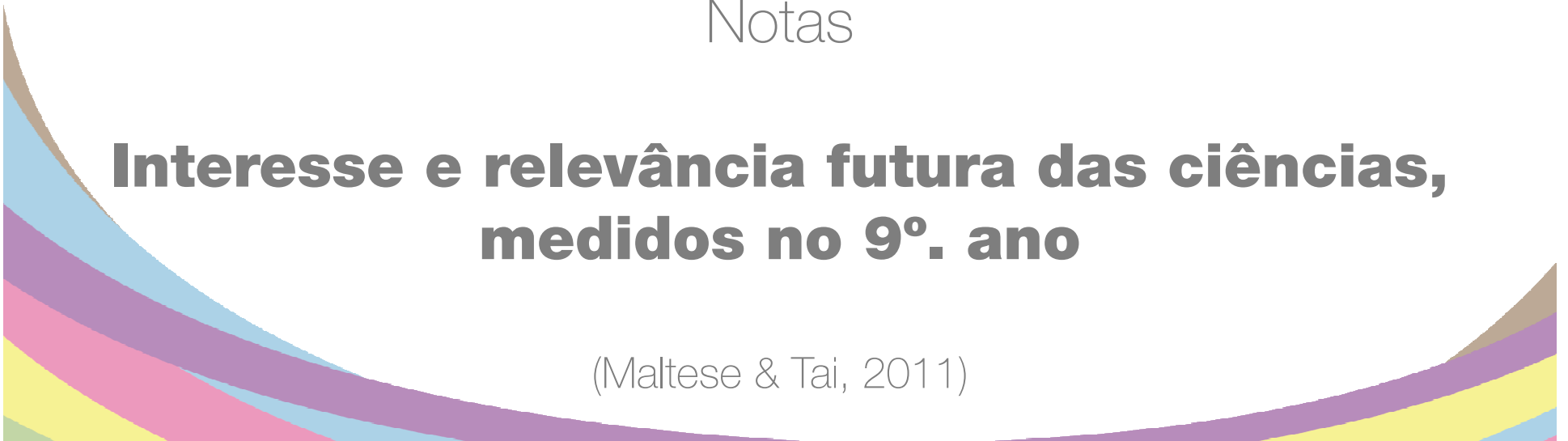
and Vivian Chen, Derek Ang, Gabriela Calderon,

Melhor estimativa de escolha de carreira em CTEM

Escolha de cursos no ensino médio
Notas

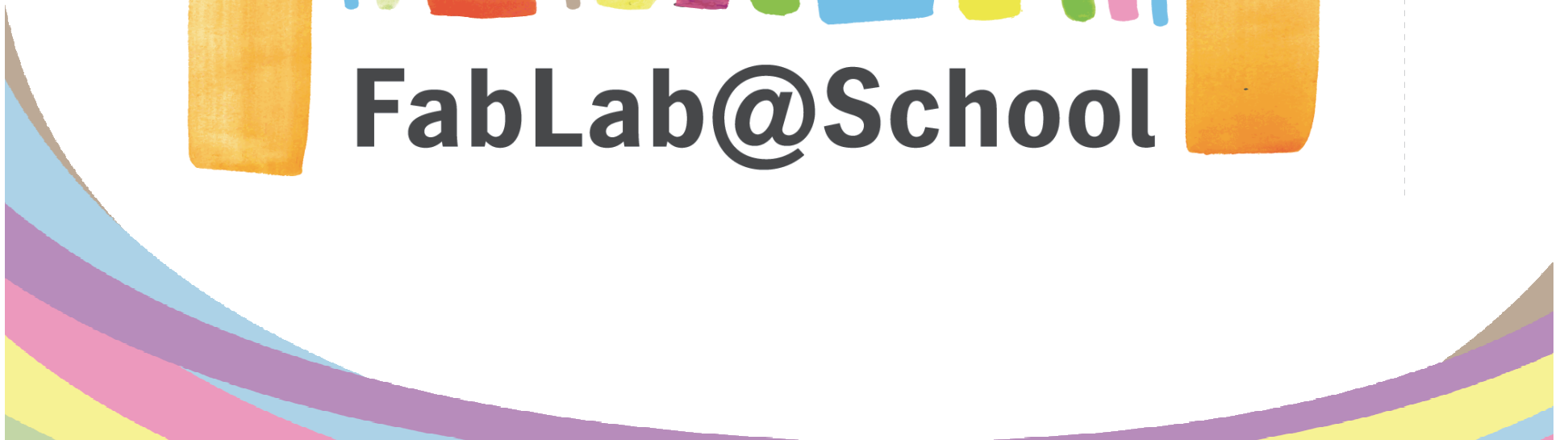
**Interesse e relevância futura das ciências,
medidos no 9º. ano**

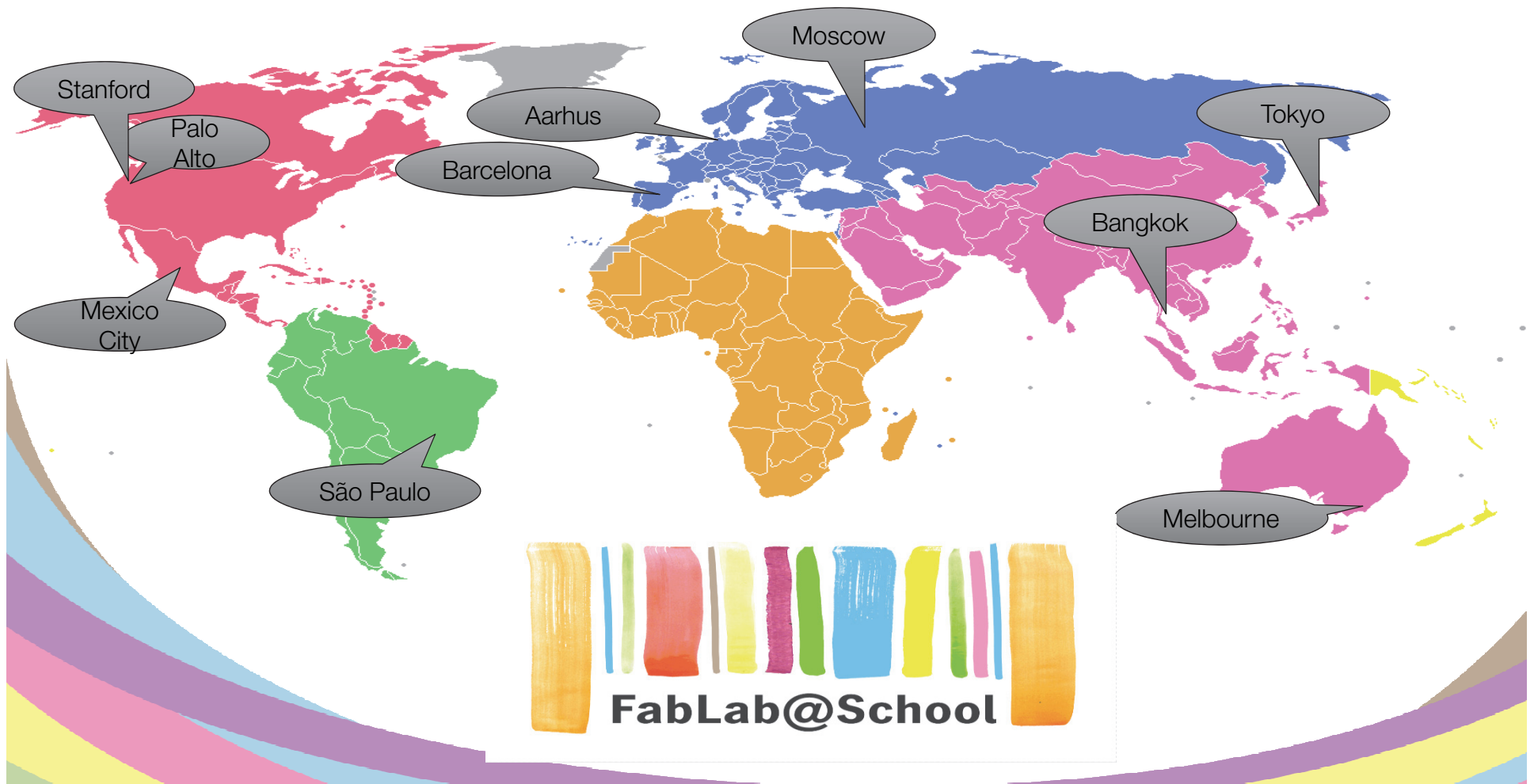
(Maltese & Tai, 2011)





FabLab@School





Melbourne, Lauriston School



Bangkok, DSIL School



Stanford University

SEPTEMBER 26-27

FabLearn2015

Conference on Creativity and Fabrication in Education

Conference Theme: **EQUITY AND DIVERSITY IN MAKING**



FabLearn Europe

Digital Fabrication in Education Conference

Key Challenges in Digital Fabrication for 21st Century Education

Monday 16 June 2014, Aarhus University, Denmark

FabLearn Europe brings together international researchers, educators, designers, and makers to discuss and explore digital fabrication in education, making, and hands-on learning for the 21st Century. This first European FabLearn conference is organized jointly by Stanford University, Bremen University and Aarhus University.

FabLearn Europe is a spinoff of the global [FabLearn conference](#), and builds on the strong and dedicated community that has developed around the event for the past three years at Stanford University. The one-day event is organized by the [Research Centre for Participatory IT](#) in close conjunction with the [2014 Conference on Interaction Design and Children](#), which is held at Aarhus University and the LEGO Foundation, 17-20 June, 2014.

Please join our Facebook group for updates [facebook.com/groups/fablearnEurope](#)
We look forward to seeing you in Aarhus!





[Login](#)

FabLearnFellows

- [About](#)
- [Fellows and Institutions](#)
- [Blogs](#)

[Home](#)

Fablearn Fellows 2014

We bring together experienced educators from around the world to create an open-source library of curriculum and contribute to research about the "makers" culture and digital fabrication in education. Our 2014 cohort is a diverse group of 18 talented professionals, representing a range of K-12 schools, non-profits, and universities.

Stanford University



Stanford University



Cyberlearning:
Transforming Education

FabLearn Fellows is made possible through a grant from the National Science Foundation

PROJECT Design a Nametag



Difficulty Level
beginner

Time Frame
3 hours - 5 hours

Keywords
interview, art, brainstorm, gift, introduction

Cost Per Student
6.00 - 12.00 USD

Tools

- CorelDRAW
- computer
- laser cutter
- vinyl cutter

Materials

- sheets/scrap acrylic

In this project

This introductory project allows students to practice using the laser cutter and CorelDRAW by designing and building a nametag for somebody using vector etching and vinyl elements.

Resources

Introductory tutorials

Lasercutting with
Epilog

Alicja



Tutorial

Fast track to
CorelDRAW

Alicja



Tutorial

CorelDRAW X6:
Getting started

Alicja



Resourcepack

Laser cutter video
tutorial

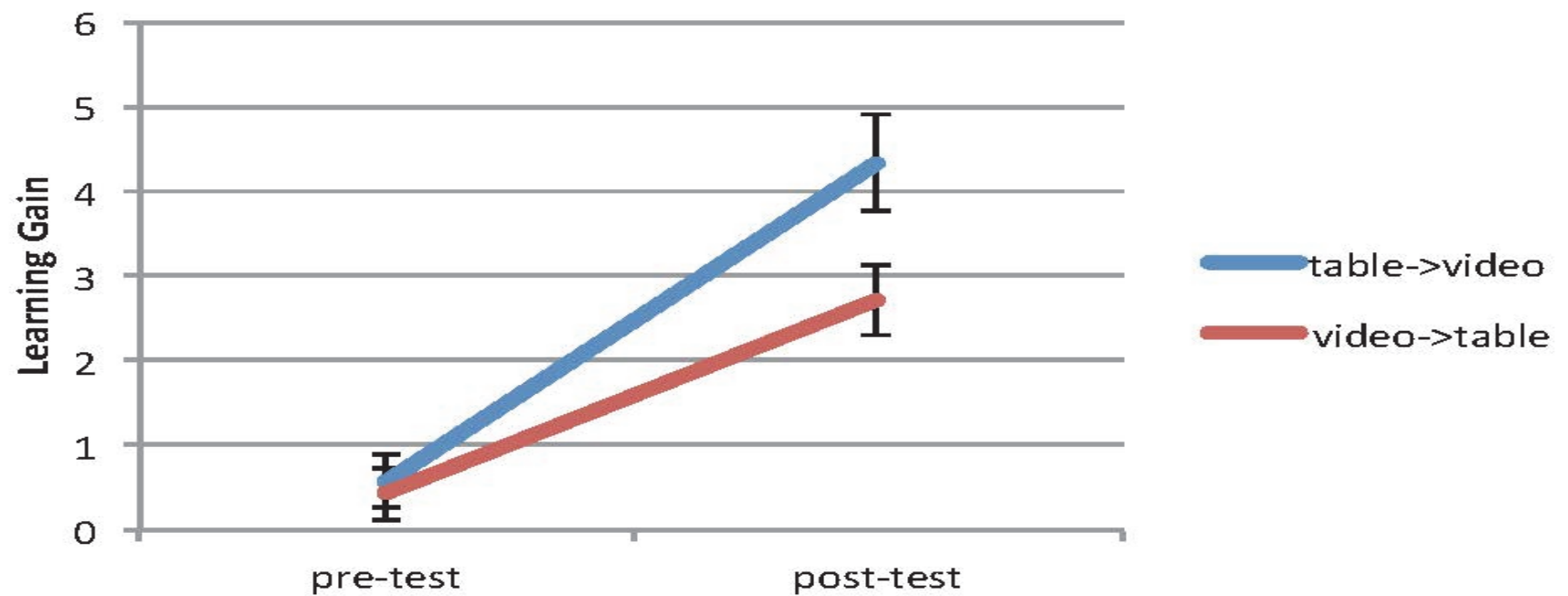
Alicja





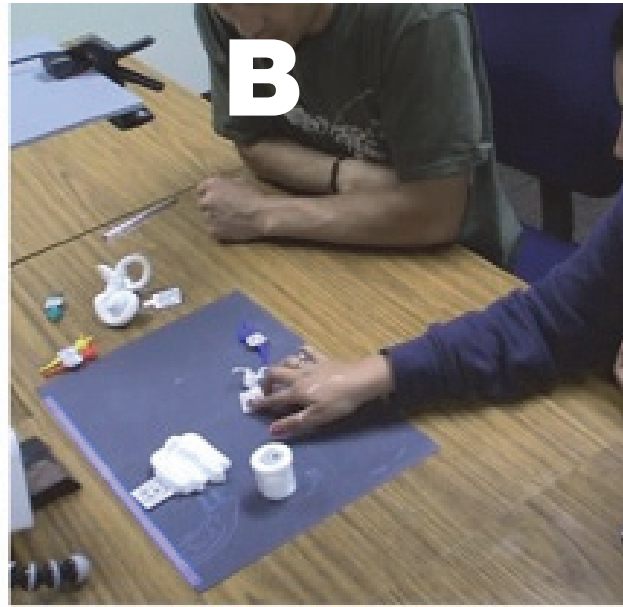
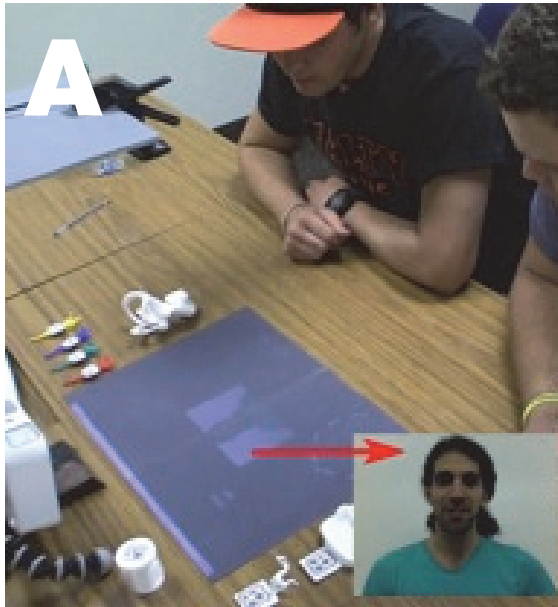
Worsley, M. & Blikstein, P. (2013)

Vídeo-aula vs. exploração ANTES



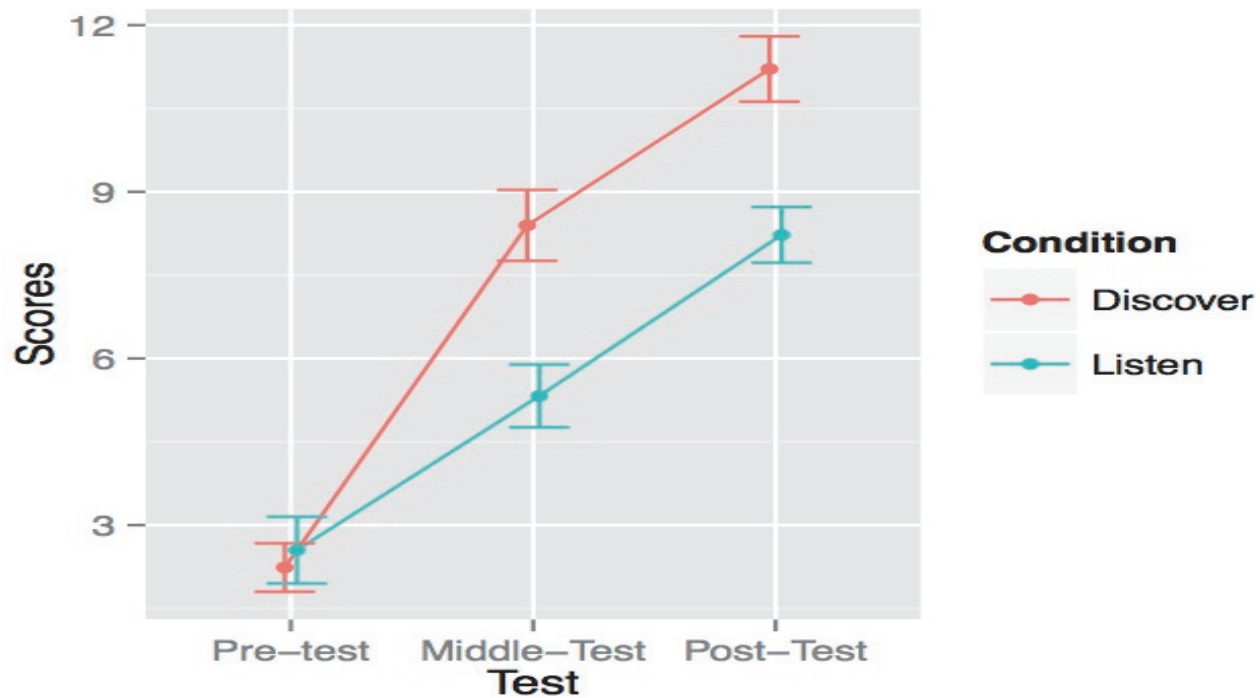
Schneider, Blikstein & McKay (2012)

Vídeo professor durante “hands-on”



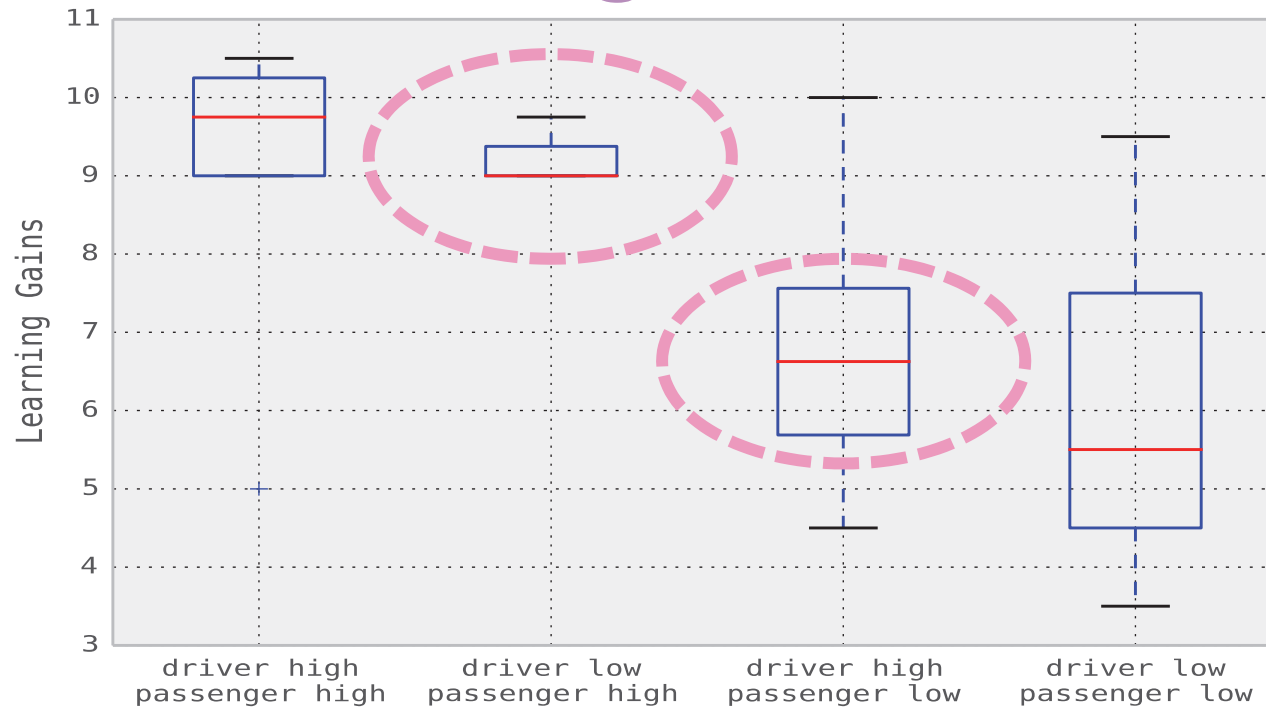
Video professor

Resultados: “Vídeo professor”



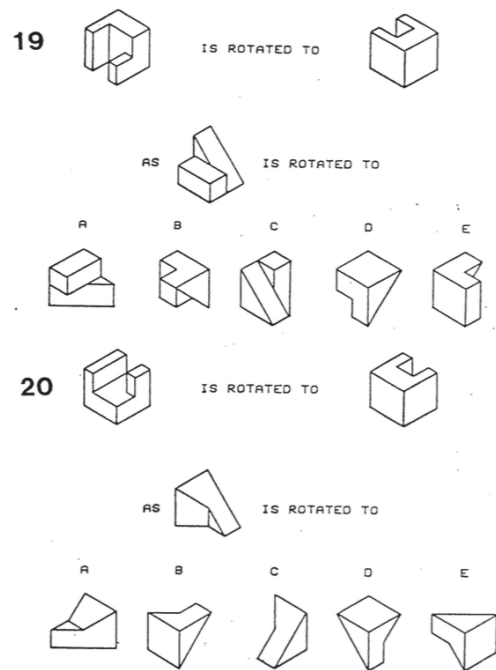
Schneider & Blikstein (under review)

Líder vs. “seguidor”

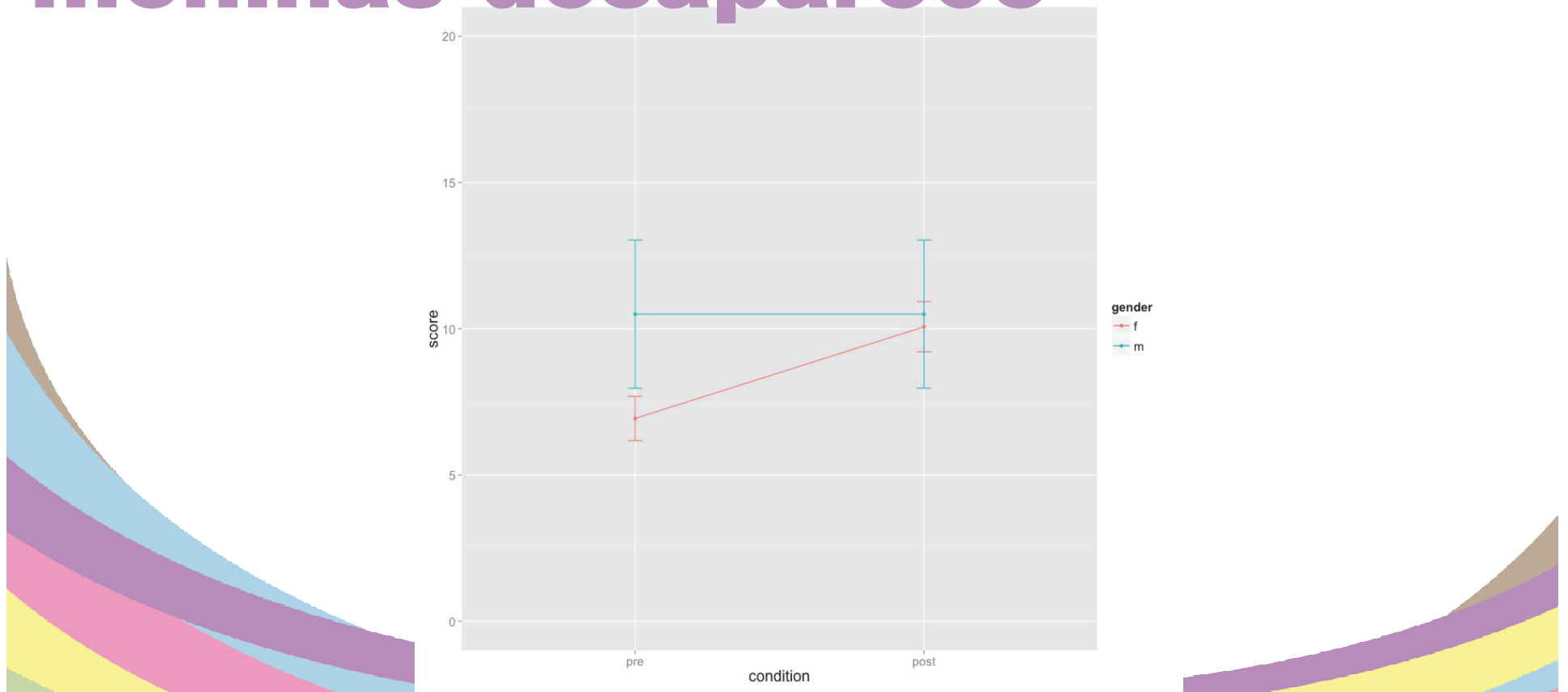


Schneider & Blikstein (under review)

Omni-Animal e raciocínio espacial



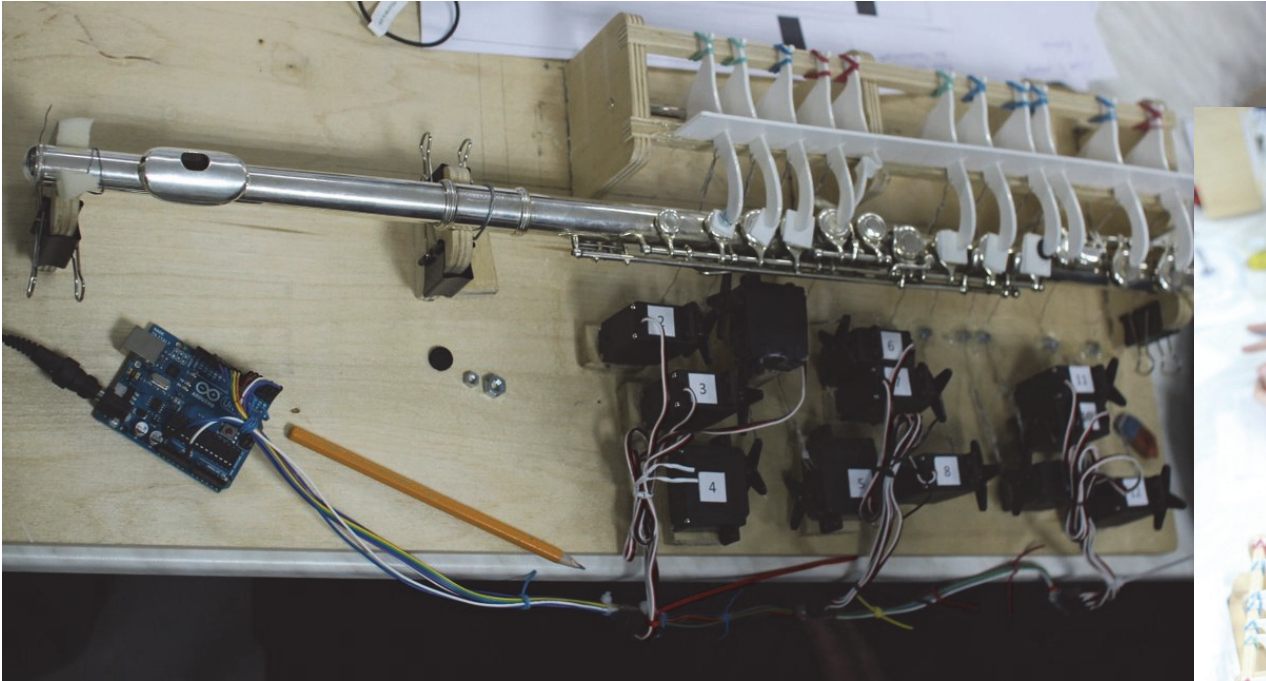
Diferença entre meninos e meninas desaparece

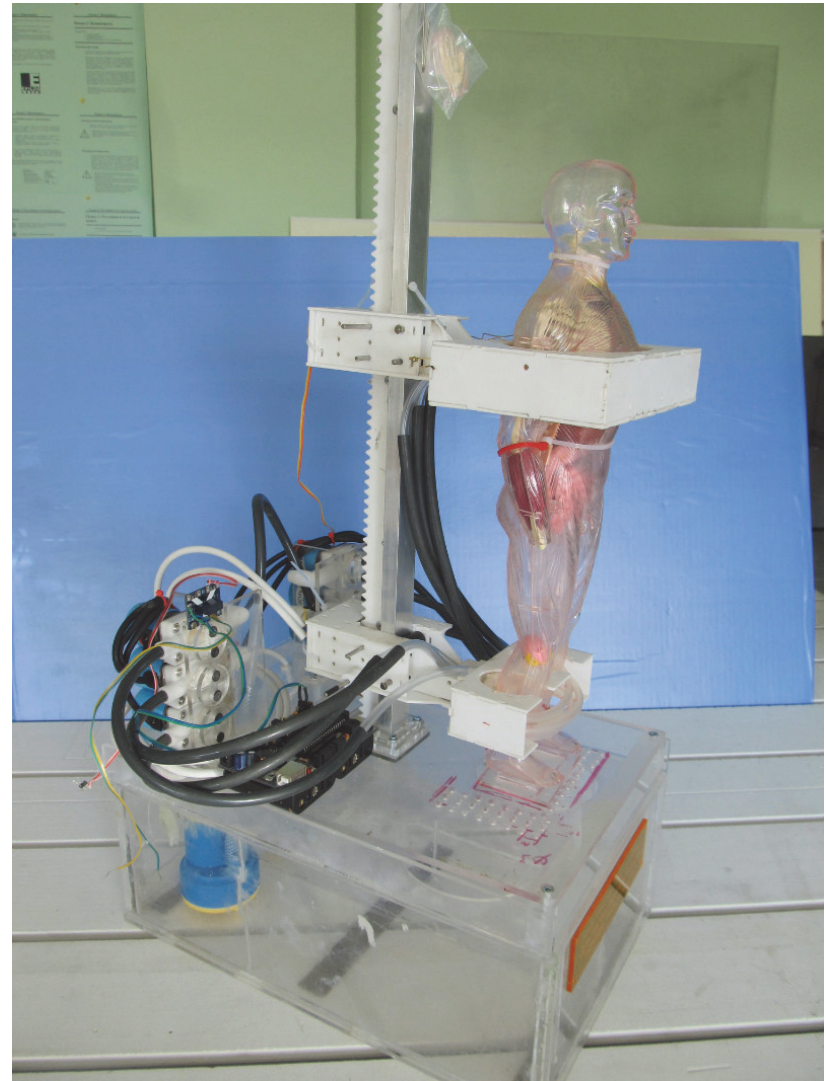
















Jean Piaget

Seymour Papert

Paulo Freire

CONSTRUCIONISMO

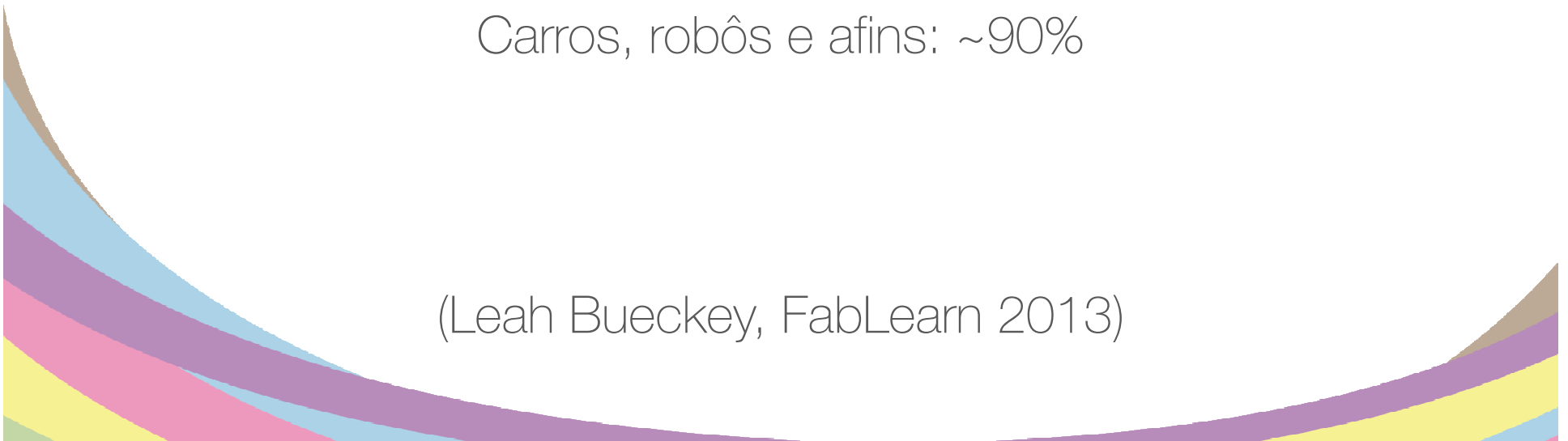
A decorative graphic at the bottom of the slide consisting of several overlapping, curved, ribbon-like shapes in shades of purple, blue, pink, yellow, and brown, extending from the left and right edges towards the center.

36 covers: 85% meninos, 0% negros

512 Artigos: 85% autores homens

Carros, robôs e afins: ~90%

(Leah Bueckey, FabLearn 2013)





Updated September 04, 2009

N.J. Burger King Testing Energy-Producing Speed Bump

& Rick Leventhal - FOXNews

Would you like a charge with those fries?

PRINT

EMAIL

SHARE

✓ RECOMMEND

– A A A +



Can a fast food drive-thru lane actually provide clean green electricity?

A company called New Energy Technologies is betting on it.

The firm has developed a prototype device it's now testing at a Burger King in Hillside, New Jersey.

[Click here for a VIDEO report from FOX News Channel's Rick Leventhal](#)

The "Motion Power Energy Harvester" is designed to capture kinetic energy from vehicles that would otherwise be lost when drivers hit the brakes to pick up their Whoppers.

Obrigado

Paulo Blikstein

[@pauloblikstein](https://twitter.com/pauloblikstein)

#fablearn

paulob@stanford.edu

fablearn.stanford.edu



Transformative Learning Technologies Lab

<http://tltl.stanford.edu>



STANFORD
UNIVERSITY

Papers:

Making for diverse audiences: <http://bit.ly/cnc6YP>

FabLab in Schools: <http://bit.ly/fablabpaper>

