

NEW TEXTILES

MAS 681, E14-493

Professor: Leah Buechley

TA: Emily Lovell

Tuesdays 3-6pm

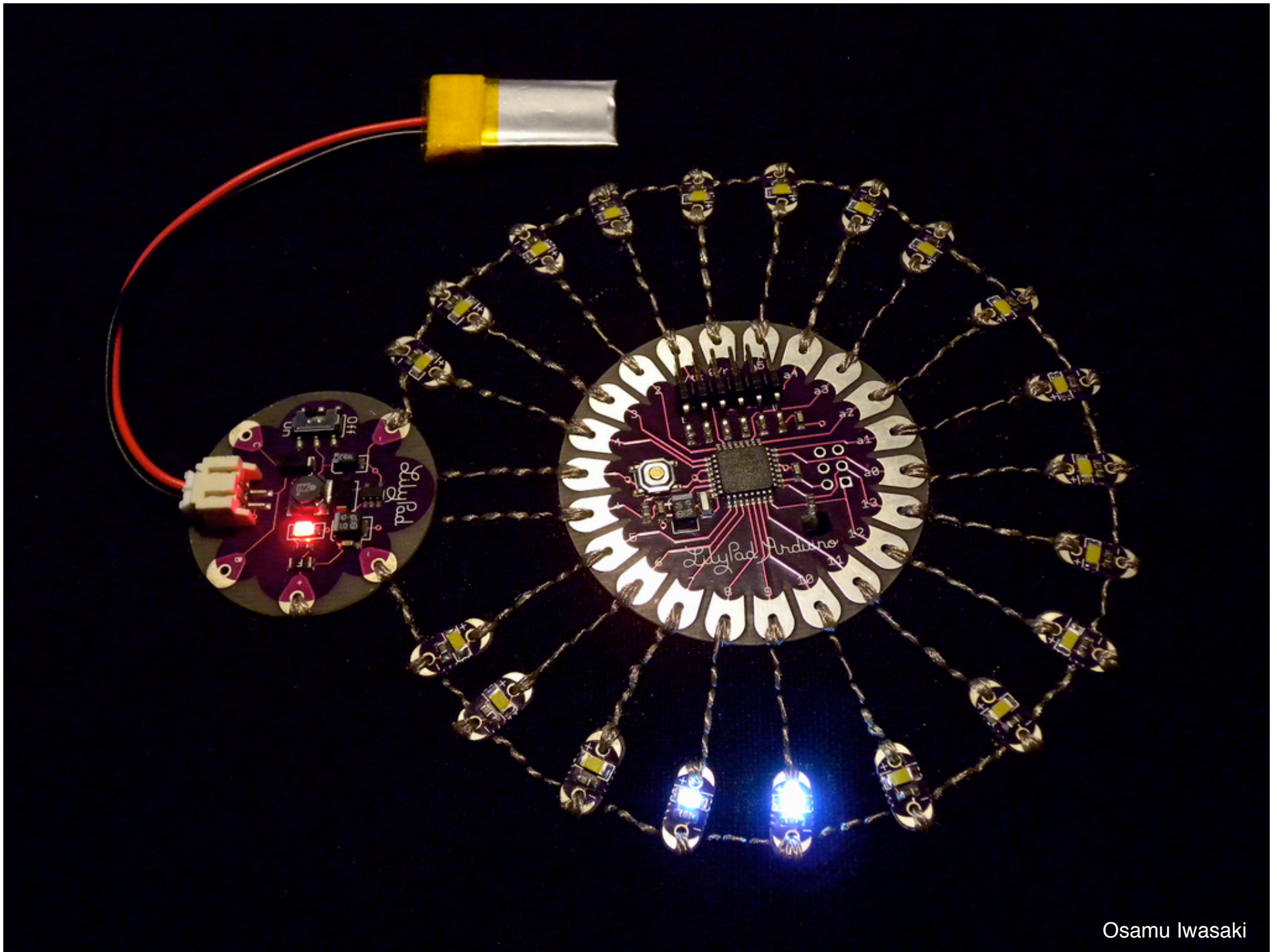
<http://newtextiles.media.mit.edu/2012>

The design, engineering, craft, art,
and fabrication of soft things

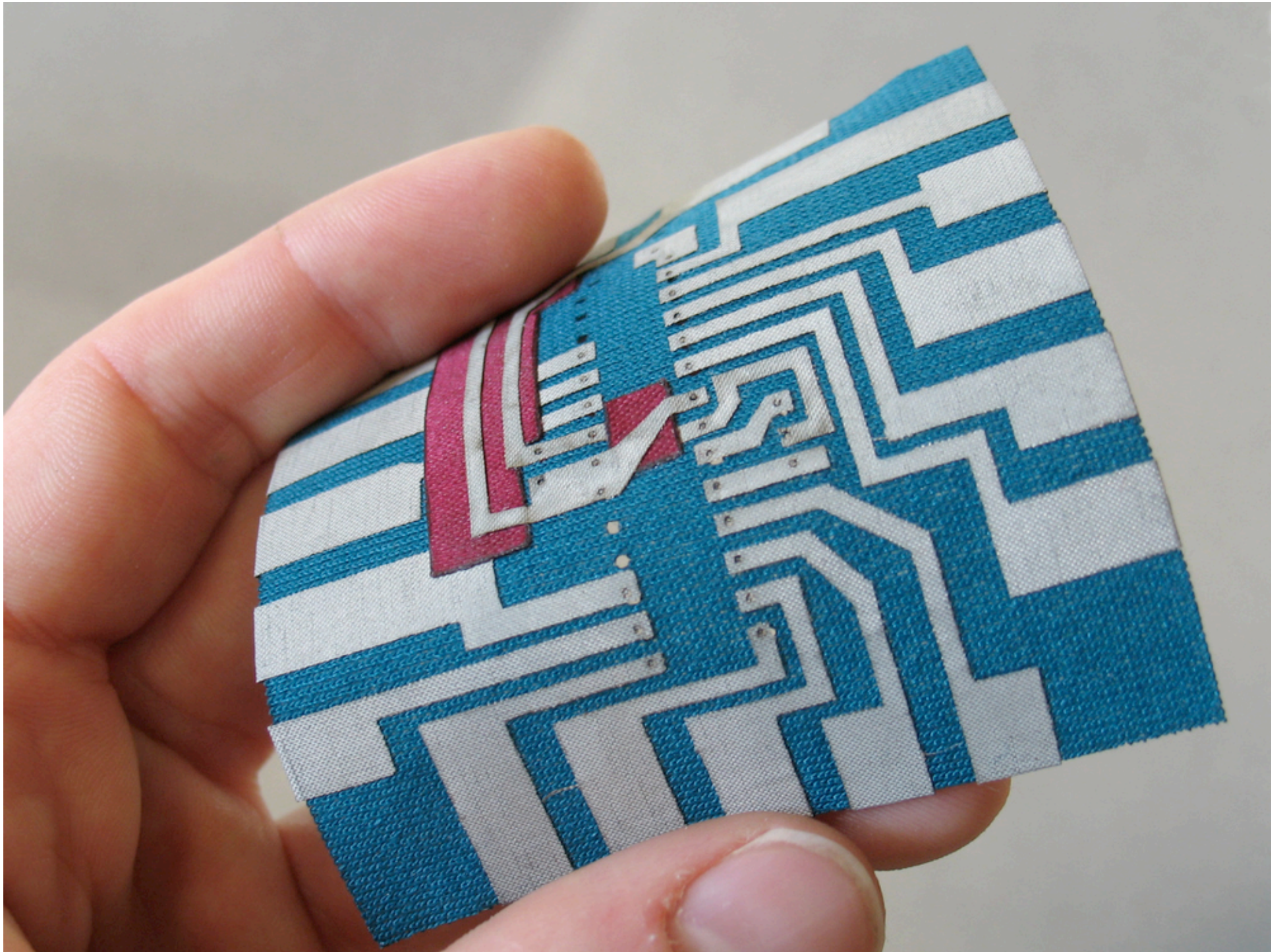
We will explore...

SOFT ELECTRONICS

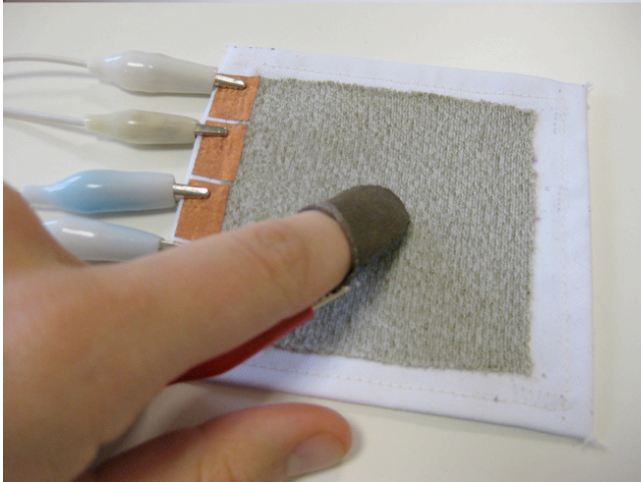
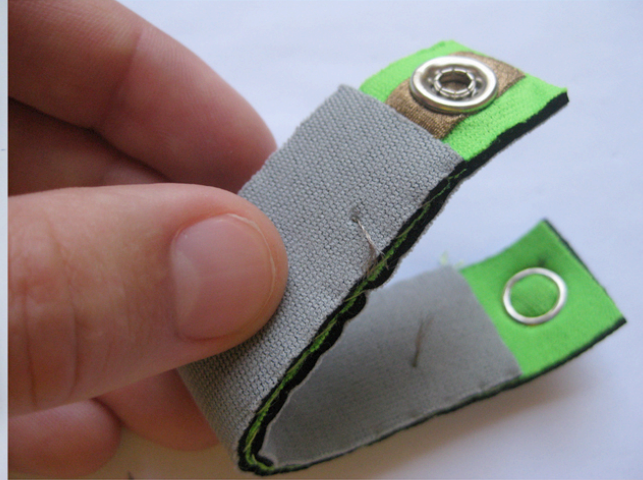
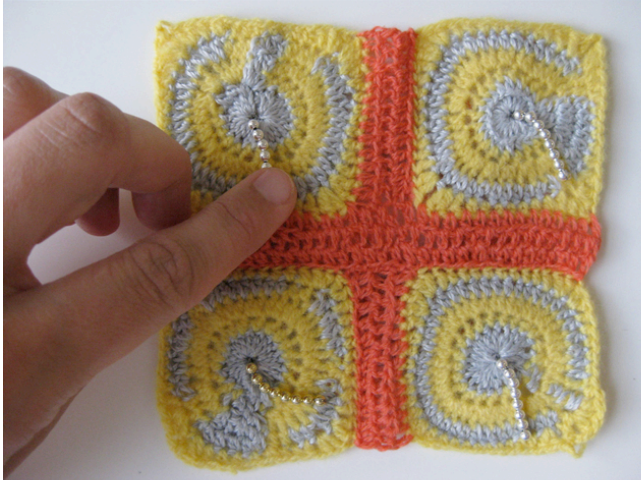
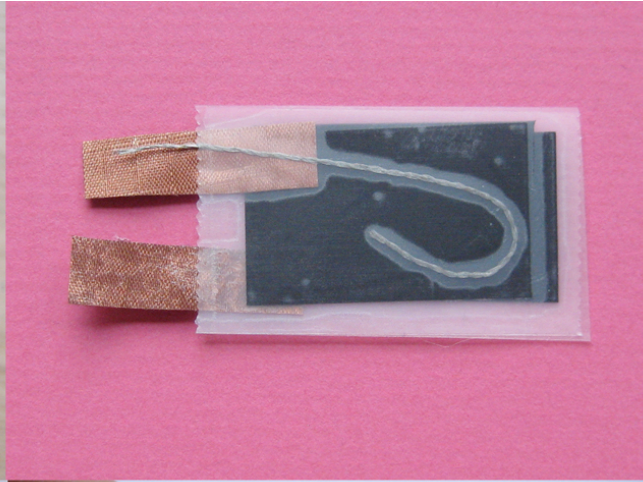
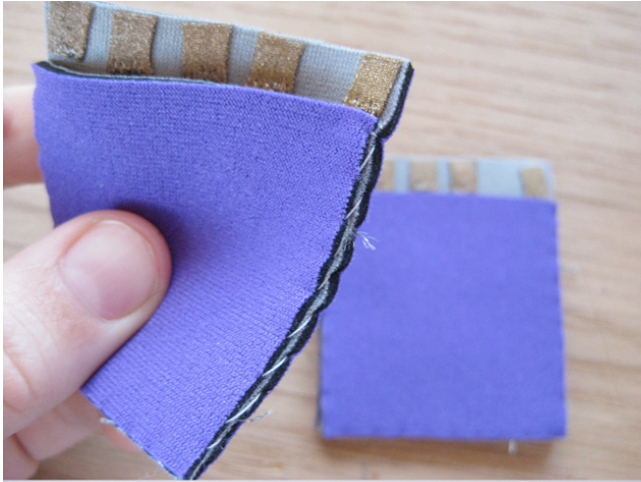
CIRCUITS



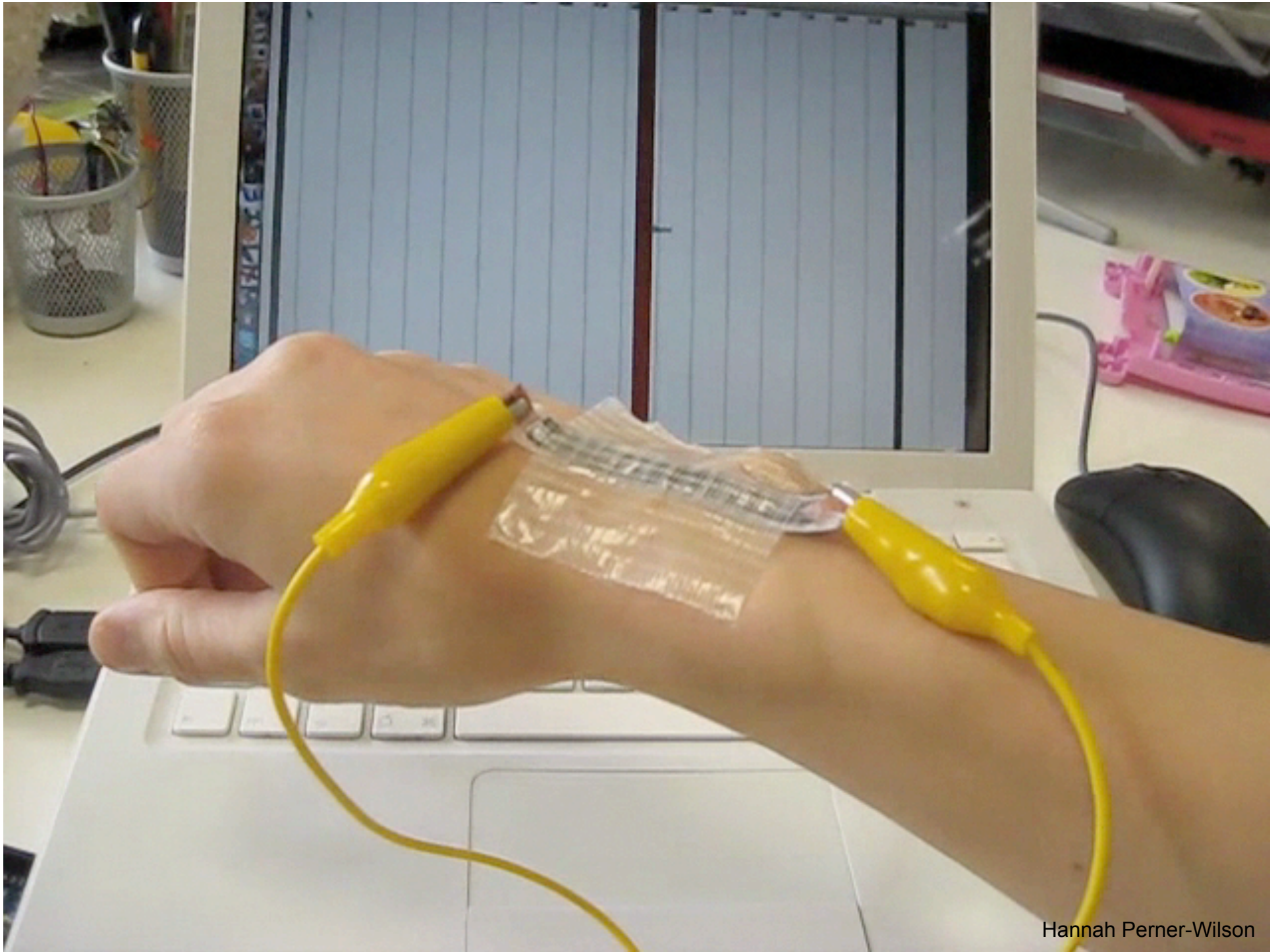
Osamu Iwasaki



SENSORS

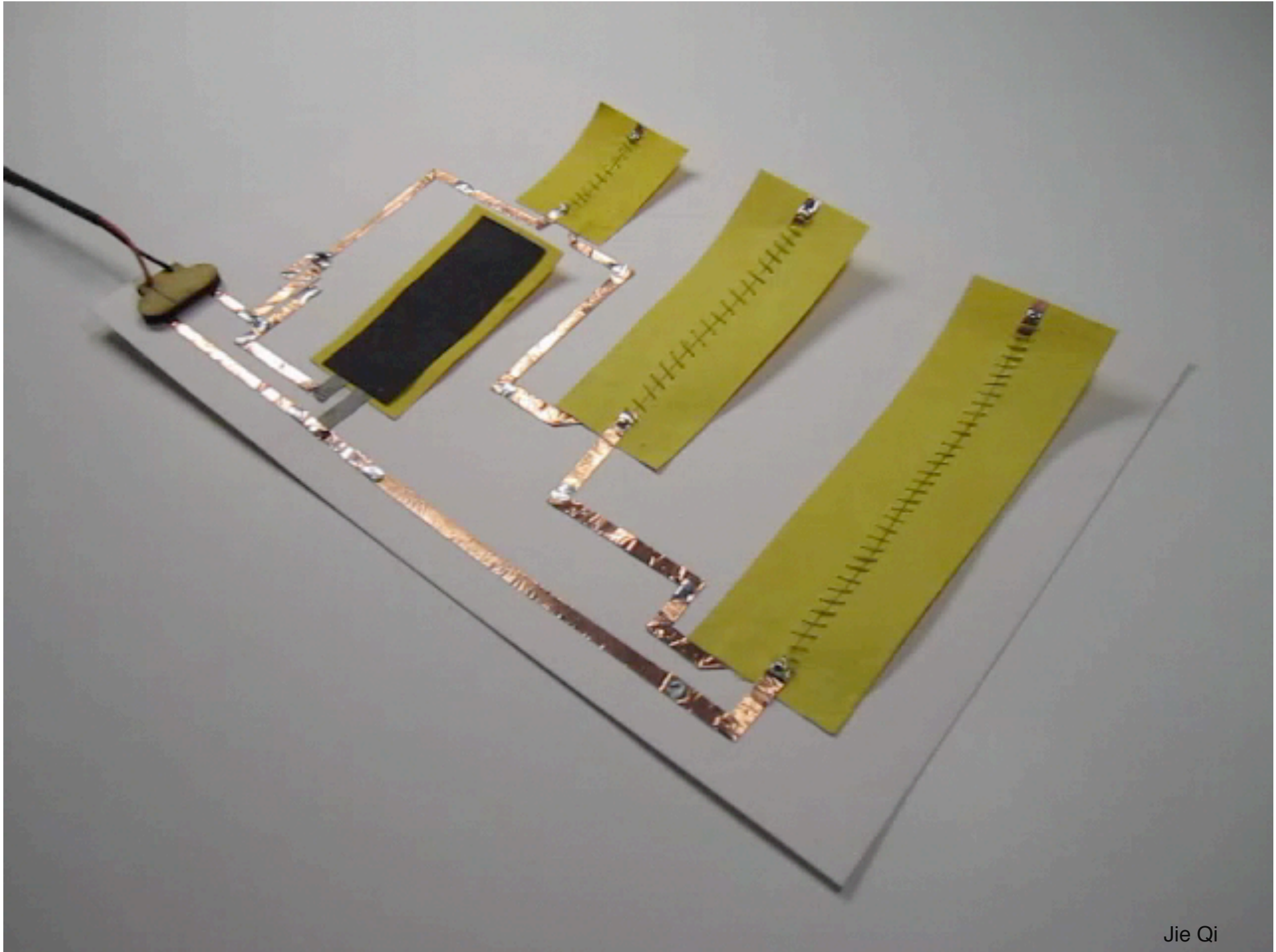


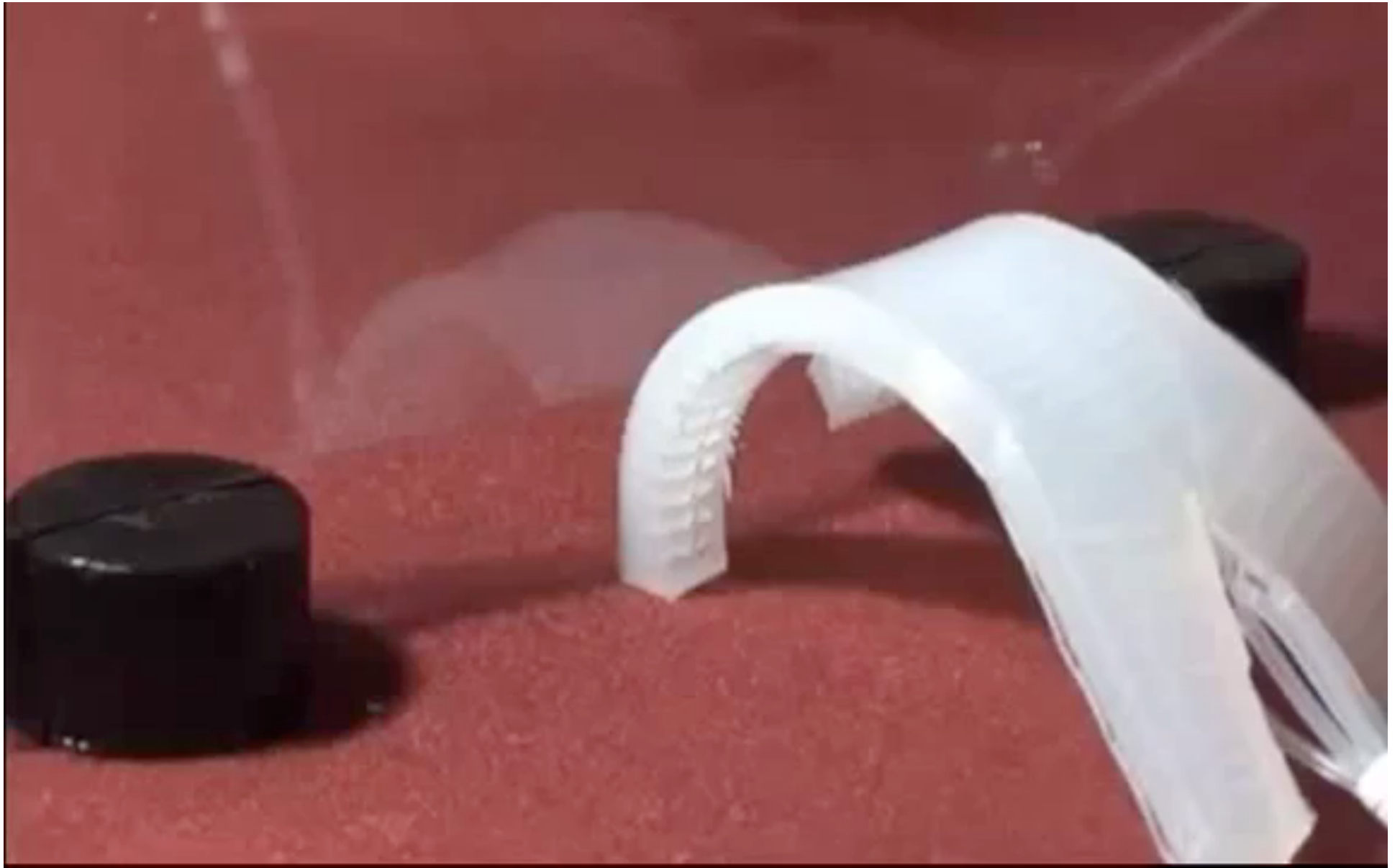
Hannah Perner-Wilson



Hannah Perner-Wilson

ACTUATORS

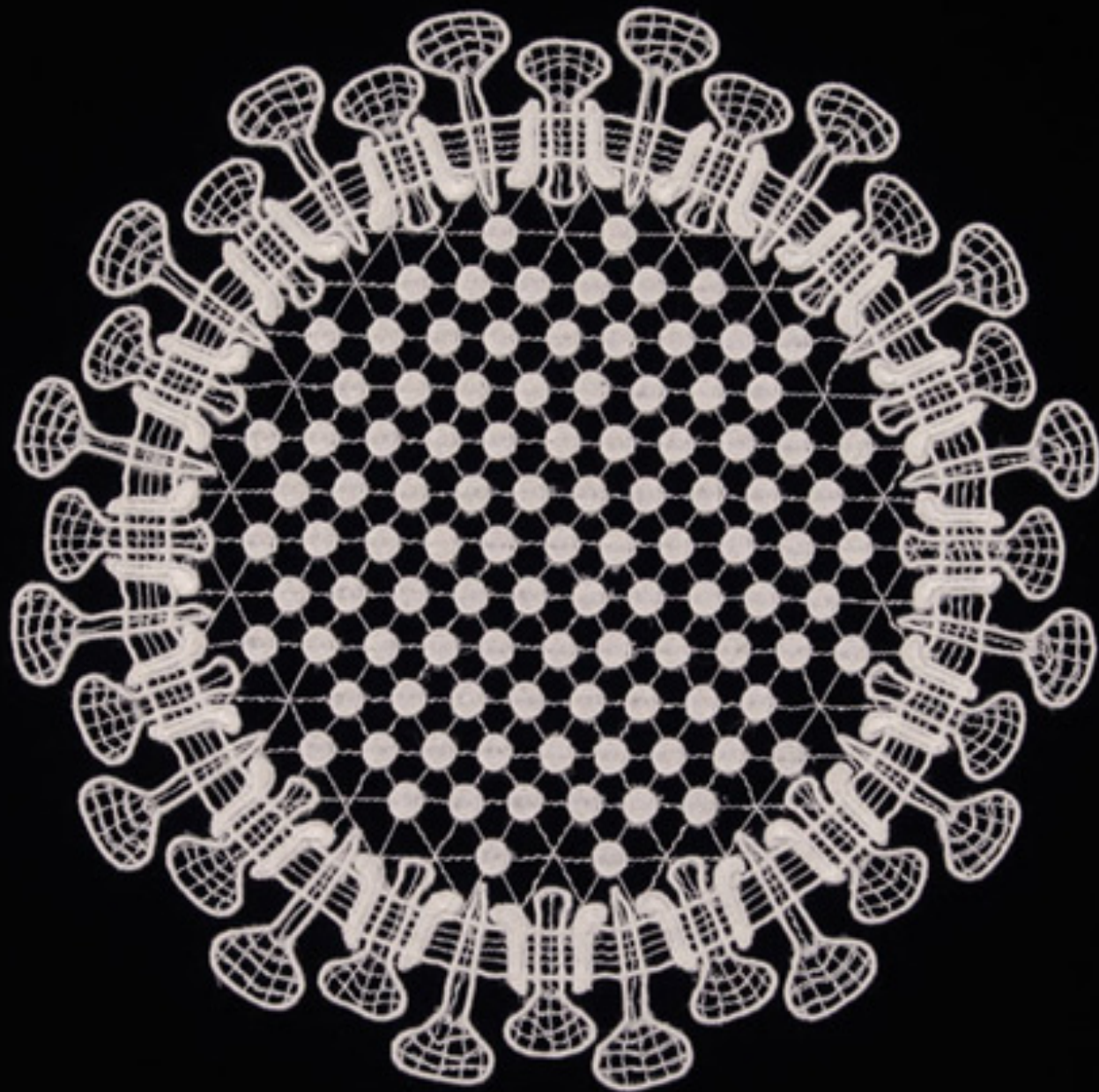




Whitesides group, Harvard

COMPUTATIONAL DESIGN







Veronika Persche



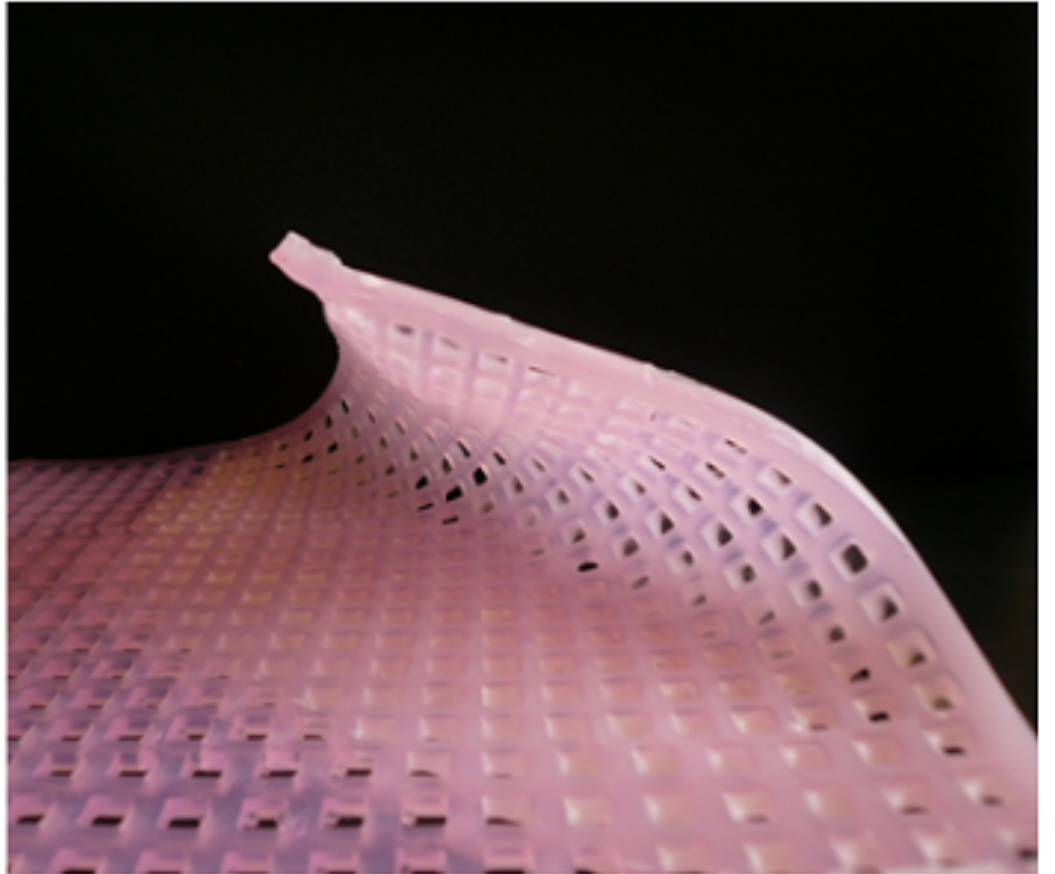
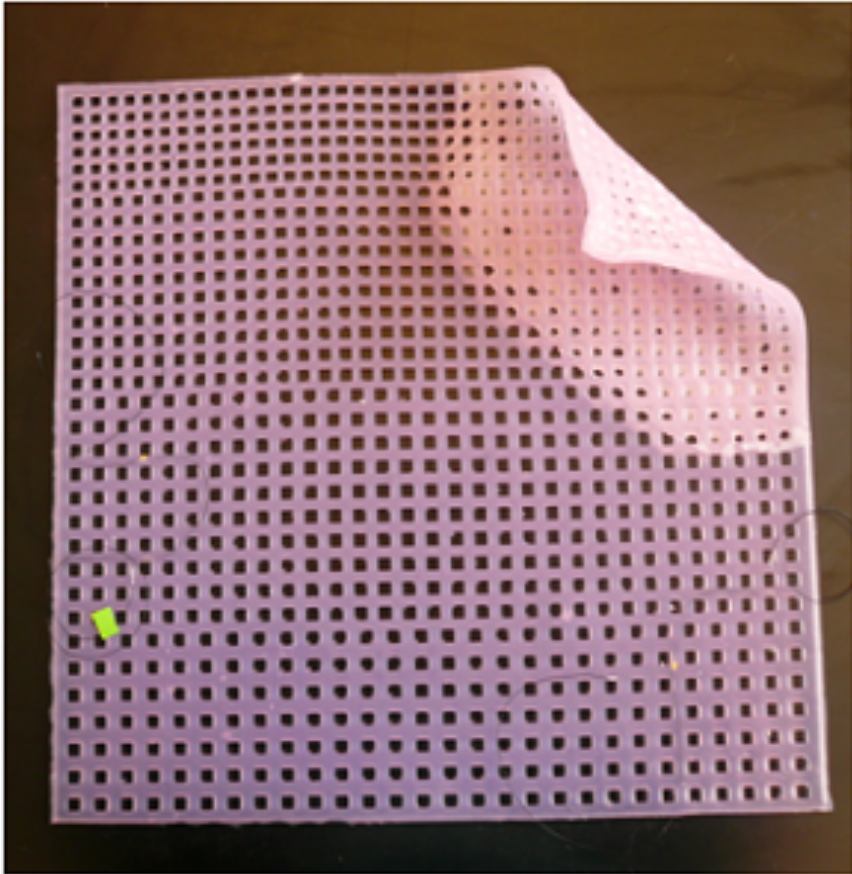
<http://www.strikaholic.dk/>



Freedom of Creation

Context for you to explore...

MATERIALS



GARMENTS



CuteCircuit



Vivometrics

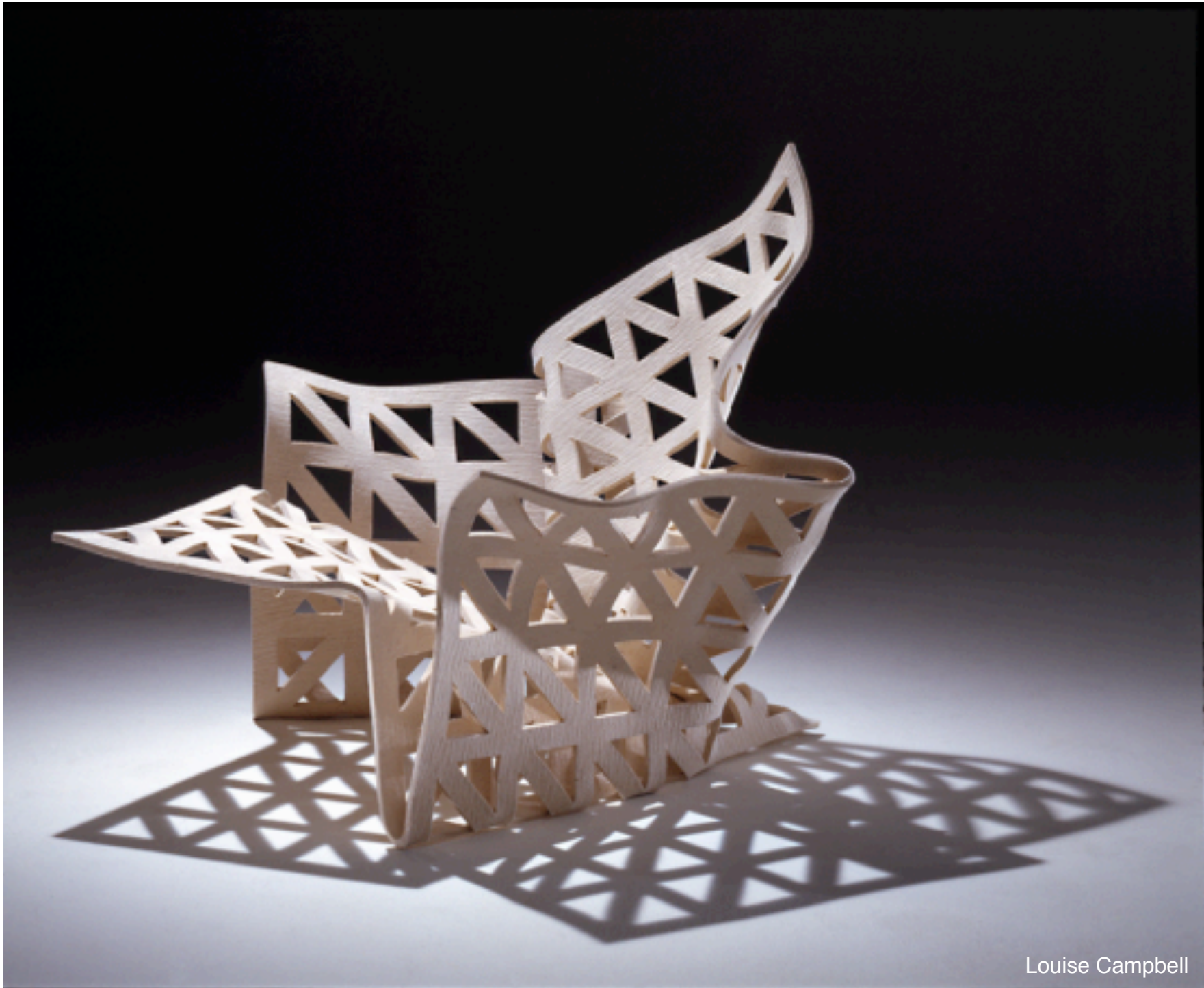


Amila Hrustic

STRUCTURES



Daina Taimina



Louise Campbell



Carol Hummel

CLASS NUTS & BOLTS

GRADING

60% weekly assignments

30% final project

10% class participation

REQUIRED MATERIALS KIT

Conductive Thread

Needles

Polymer Lithium Ion Battery (rechargeable)

LilyPad Simple Power

LilyPad Button Board

LilyPad Arduino Simple + LilyPad FTDI & USB Mini-B Cable

5 White LilyPad LEDs

\$100

+ Multimeter

SUGGESTED TEXTBOOK

Kadolph, S. (2007), *Textiles*,
Prentice Hall, Upper Saddle River, NJ

LAB SESSIONS

3 hours/week time TBA

this week: 3-6pm on Thursday February 9

1ST ASSIGNMENT

registration survey
due Wednesday, February 8

No phone, laptop, tablet use in class

<http://newtextiles.media.mit.edu/2012>