Lifelong Learning for New Collar Workforces of the 4th Industrial Revolution

Paul Kim, PhD.
Chief Technology Officer & Assistant Dean
Stanford University Graduate School of Education
phkim@stanford.edu
Stanford University
Stanford entrepreneurs created more than 5.4 million jobs in 40,000 global companies leading to generate $2.7T annually.

- Sergey Brin and Larry Page, co-founders of Google
- Jerry Yang and David Filo, co-founders of Yahoo
- Reed Hastings, CEO of Netflix
- Reid Hoffman, co-founder of LinkedIn
- Vinod Khosla, a prominent venture capitalist
- Peter Thiel, co-founder of PayPal and a prominent venture capitalist
- Phil Knight - NIKE
Today’s Exercise

is the New

Emerging Paradigm, Renewed Perspective, Practice

Traditional, Outdated Concept, Behavior
Sitting is the New Smoking
Sitting increases risk of death up to 40%

Sitting 6+ hours per day makes you up to 40% likelier to die within 15 years than someone who sits less than 3. Even if you exercise.

Average Physical Activity (Waking Hours):
- Sedentary
- Low-Intensity Physical Activity (Walking, Standing)
- Medium-Vigorous Physical Activity (Running, Sports)

Studies show that only reducing sitting time helps. It's clear that sitting is killing us: but how?
“The illiterate of the 21st Century are not those who cannot read and write but those who cannot learn, unlearn and relearn.”

— Alvin Toffler, *Powershift: Knowledge, Wealth, and Power at the Edge of the 21st Century*
Life expectancy at birth in 2010 and 2030

Women

Top countries

90.82 South Korea
84.23
88.07 Spain
84.83
87.52 Portugal
83.14
87.42 Slovenia
82.68
87.70 Switzerland
84.59

Bottom countries

Hungary 81.74
Bulgaria 78.87
Macedonia 77.83
Mexico 82.96
Serbia 78.27

Men

Top countries

Switzerland 83.95
Netherlands 83.69
South Korea 84.07
Australia 84.00
Denmark 82.53

Bottom countries

Mexico 76.15
Macedonia 74.65
Romania 74.21
Bulgaria 74.07
Serbia 73.37


Must Re-learn and Re-learn and Re-learn......for very long...
See inspiring 101-year-old woman win gold in 100-meter dash at World Masters Games

The world of work is changing rapidly

McKinsey analysts estimated a 5X increase in Skillsets needed in the workforce from 2009 to 2012.

Gmail, Word, Excel, Photoshop, Blog, Podcast, Youtube, What’sApp, Kakaotalk, etc.
Technological advancement rate always exceeds human perception and behavior change rate...
“THE WORLD IS CHANGING VERY FAST. BIG WILL NOT BEAT SMALL ANYMORE. IT WILL BE THE FAST BEATING THE SLOW.”

RUPERT MURDOCH

© Lifehack Quotes

The Fast is the New Big
Who are “the fast movers” in the private sector?
Investment in New Educational Models Continues to Accelerate

Select VC Education Portfolios

<table>
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<th>Key Themes</th>
<th>Select Investments</th>
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<td>EDX, Udacity</td>
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<td>Language Learning</td>
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<td>Education Software</td>
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<td>MOOCs</td>
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<td>Education Software/Marketplaces</td>
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<td>Digital Books</td>
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<td>Smart Games</td>
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</table>

Select EdTech Accelerators

- Source: Bloomberg, Capital IQ, VentureSource and GS extrapolations

Online Education, Adaptive Learning, MOOCs, Smart Games

VC/Growth Investment in EdTech

$3,028mm invested in 2016

$3B

Perspectives on the Education Landscape
Education Industry is the New Wild Wild West
# Key Investment Areas in Education Technology & Services

<table>
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<tr>
<th>Theme</th>
<th>Select Companies</th>
<th>Select Market Data</th>
<th>Thesis</th>
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<tr>
<td>Adaptive and Competency Based Learning</td>
<td><strong>ALEKS</strong>, <strong>Ellucian</strong>, <strong>Instructure</strong>, <strong>Coursera</strong>, <strong>edX</strong></td>
<td><strong>McGraw-Hill acquired Redbird Advanced Learning in Sep’16</strong></td>
<td><strong>Learner-centric, personalized, and adaptive software curriculum will replace front-of-the-classroom, one-to-many teaching model</strong></td>
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<td>Tech- and Skills-based Learning</td>
<td><strong>Codecademy</strong>, <strong>Grove</strong>, <strong>Kadenze</strong>, <strong>PrepMasters</strong></td>
<td><strong>Geekie raised $7mm in May’15</strong></td>
<td><strong>Skills-oriented training, especially in areas such as programming / technology, increasingly demanded by employers</strong></td>
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<td>Data / Analytics</td>
<td><strong>PowerSchool acquired Chalkable in Oct’16</strong></td>
<td><strong>Dreambox raised $10mm in Aug’15</strong></td>
<td><strong>Demand for formative assessment, analytical insight and sophisticated data systems driven top-down by regulation and bottom-up by innovative school models</strong></td>
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<td>Online Higher Ed</td>
<td><strong>Noodle Partners raised $4mm in Oct’16</strong></td>
<td><strong>LEAP Innovations received $5mm grant in Jun’15</strong></td>
<td><strong>All major educational institutions K post-secondary will eventually leverage online strategies to extend reach and deliver content</strong></td>
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<td>Language</td>
<td><strong>VIPKid raised $100mm in Aug’16</strong></td>
<td><strong>KnowMe raised $7mm in Oct’14</strong></td>
<td><strong>Growth of English language learning around the world accelerating</strong></td>
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<td>New Content Platforms</td>
<td><strong>BYJU’S raised $50mm in Sep’15</strong></td>
<td><strong>Duolingo raised $45mm in Jun’15</strong></td>
<td><strong>Rising demand for skills-oriented (esp. tech/programming) education will drive growth of video-based and self-paced digital learning platforms</strong></td>
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- **Kadenze raised $2mm in Sep’16**
- **Galvanize raised $5mm in Aug’16**
- **General Assembly acquired Bitmaker in Aug’16**
- **Codecademy raised $30mm in Jul’16**
- **Andela raised $24mm in Jun’16**
- **Degreed acquired $40mm in Feb’16**

- **PowerSchool acquired Chalkable in Oct’16**
- **Schoolzilla acquired $40mm in Aug’16**
- **Kenexa acquired $250mm in Nov’15**
- **Andela raised $24mm in Jun’16**
- **Grove raised $40mm in Feb’16**

- **Noodle Partners acquired $4mm in Oct’16**
- **HotChalk raised $230mm in Sep’16**
- **Coursera raised $50mm in Aug’15**
- **Instructure raised $81mm in Nov’15**
- **Civitas Learning raised $60mm in Sep’15**
- **Ellicon was acquired by TPG and Leonard Green in Aug’15**

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- **Kaltura raised $50mm in Aug’16**
- **TutorGroup raised $81mm in Nov’15**
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- **Babbel raised $22mm in Jul’15**
- **Duolingo raised $45mm in Jun’15**

- **BYJU’S raised $50mm in Sep’15**
- **Panopto raised $43mm in Aug’16**
- **Pluralsight acquired Train Simple in Jul’16**
- **VIPKid raised $105mm in Nov’15**

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The Rise of Boot Camps

380K graduates. 90% job placement rate.

Accelerated Tech Skill Training

Listed on NASDAQ
83% of hiring managers say lack of tech talent hurts business.
Join the Part-Time Web Developer Track

Become a developer in six months with the structure and rigor of a bootcamp. All without sacrificing your day job.

Learn More

Build Real Applications
Create and deploy fully-functional apps for your portfolio.

Experienced Mentors
Meet weekly, 1-on-1, with an experienced mentor vested in your success.

Rigorous and Intensive
Use a real dev environment to deploy live apps. No in-browser fluff

Become a Software Developer

100% Online Boot Camp
What course will your life take?
Own your future by learning new skills online

Find a course on virtually anything

Over 15 million students
More than 45,000 courses
Learn at your pace on any device
What used to be a privilege for a small group of elite learners has become a disposable learning resource for all.
Take the world's best courses, online.

Join for free

Top Specializations

- Johns Hopkins University: Data Science
- University of Michigan: Python for Everybody
- Duke University: Excel to MySQL: Analytic Techniques for Business
- University of Michigan: Applied Data Science with Python
WORLD-CLASS NANODEGREE PROGRAMS

Jobs of Tomorrow Start Here

Digital Marketing Nanodegree
New!

Explore Jobs from our Partners
New!

Robotics Nanodegree
New!

Google
amazon
IBM Watson
VIVE
Mercedes-Benz
DiDi
FCA
Best Courses. Top Institutions. Learn anytime, anywhere.

edX Programs Starting Soon

- RITx Cybersecurity
- UBCx Software Development
- MITx Supply Chain Management
- ColumbiaX Business Analytics
Opportunities and Challenges

Kenya has historically served as the main communication, trade and financial hub of East Africa. This has resulted in relatively modern transportation and telecommunications infrastructure compared with peer countries in the region. Although historical growth has been uneven, the country has been on more solid economic footing since 2002. GDP growth rates increased from 2.8 percent in 2003 to 5.8 percent in 2005. Sectors such as tourism and telecommunications expanded quickly during this timeframe and the trend appeared likely to continue. The energy, construction and manufacturing sectors also grew steadily. In the banking sector, asset quality strengthened and improved credit risk management contributed to an increase in overall profitability of banks, with an average return on equity (ROE) of 24.4 percent in 2005.

Despite the progress, poverty and inequality remained at high levels. In 2006, approximately 23 percent of the population was still living on less than $1 a day, and 58 percent on less than $2 a day. Fewer people were impoverished in 2007 than in 1997, but widespread suffering still existed. Inequality was also prevalent - the wealthiest 10 percent controlled more than 42 percent of the country's income, while their poorest counterparts received less than 1 percent. Kenyans began to demand the right to education in the early 2000s as a step toward higher quality of life. In response, the government introduced free primary education, which increased school enrollment by almost 70 percent. However, fees continued to be required in secondary and higher education. In addition, the high demand that existed for university-level education was not matched by local supply. As a result, large numbers of students had to leave Kenya in order to pursue degrees in neighboring countries.

Gender inequality was also a challenge. During the early years of the twenty-first century, some government policies and legislation started to favor women's rights. However, in 2006, women still comprised 70 percent of the literate population in the country and many laws, including one that prohibited women from owning or inheriting land, continued to enforce a dual standard for men and women. Unfortunately, education and gender were just two of the hurdles faced by Kibaki's administration in the effort to improve living standards of the Kenyan people. Other challenges included a life expectancy of just 48 years, due in part to poverty, violence and a 7 percent HIV/AIDS infection rate.

Global Microfinance

Microfinance is the supply of basic financial services to the poor, including loans, credit, savings, insurance and transfer services. The formal financial sector has not traditionally been accessible to the impoverished entrepreneurs who comprise most of the world's working population. Instead, informal systems and relationships, including neighbors and rotating savings/credit clubs, have filled this gap. While similar solutions have worked for some and are often the only option available, they can be inconsistent and unreliable during times of tremendous need. In addition, poor entrepreneurs can become trapped in vicious cycles of borrowing from local moneylenders, who charge exorbitant interest rates.
Lifelong Learning is the New Privilege for All

Live as if you were to die tomorrow. Learn as if you were to live forever.

-Mahatma Gandhi
Computer Science 101 (Self-Paced)

CS101 now self paced!
The active course run for CS101 has ended, but the course is now available in a self-paced mode. You are welcome to join the course and work through the material and exercises at your own pace. When you have completed the exercises with a score of 80% or higher, you can generate your Statement of Accomplishment from within the course.

The course will remain available for an extended period of time. We anticipate the content will be available until at least Sept 1, 2015. You will be notified by email of any changes to content availability beforehand.

About CS101
CS101 teaches the essential ideas of Computer Science for a zero-prior-experience audience. Computers can appear very complicated, but in reality, computers work within just a few, simple patterns. CS101 demystifies and brings those patterns to life, which is useful for anyone using computers today.

In CS101, participants play and experiment with short bits of “computer code” to bring to life the power and limitations of computers. Everything works within the browser, so there is no extra software to download or install. CS101 also provides a general background on computers today: what is a computer, what is hardware, what is software, what is the Internet. No previous experience is required other than the ability to use a web browser.
This is to certify that,

Ibrahim Omar

has successfully completed a free online offering of

Computer Science 101

Nick Parlante
Lecturer, Computer Science
Stanford University

Authenticity of this statement of accomplishment can be verified at: https://verify.class.stanford.edu/soa/bdc74cca1d424d7a8071b6929a3811bd
THE NEXT BIG BLUE-COLLAR JOB IS CODING

Coding is the New Blue Collar Job?

https://www.wired.com/
Korea’s Guro District

Working overtime the same way

Coding Machine is the New Sewing Machine
How new collar jobs will be formed?
Daddy's Car: a song composed by Artificial Intelligence - in the style of the Beatles

806K views
12. \((2 \cdot 5)(-4) = -4(2\cdot5)\)

15. \(-(m - 2) + 3m - 6\)

18. \(13w - 2(3 - 6w)\)

21. \(9x - 7 = 13 - 4x\)

\[\frac{x}{20} = \frac{13}{13} \Rightarrow x = \frac{20}{13}\]

The table price of the chairs sells \((x_1)\) The price of the table \((x_2)\) and the price of \((x_3)\) add integers such that the sum of the proof of the following

\[\sum f_1(x_1) f_2(x_2, x_1)\]

\[\sum f_1(x_1) f_2(x_2, x_1) = 2(x_2, x_1)\]
Otto, recently acquired by Uber, took a load of Budweiser 120 miles completely autonomously.

**UBER'S SELF-DRIVING TRUCK MAKES ITS FIRST DELIVERY: 50,000 BEERS**
A new farmer who can do farming much better
65% of children in elementary school today will have jobs that do not exist, yet.

U.S. Department of Labor report.

Many of public servant jobs will be replaced by machines.
Who are the new lifelong learners in 10 years?
School Reform Efforts

P-TECH
Pathways in Technology Early College High School

Combining best features from grades 9-14

Reinventing High School through STEM Education
IBM’s P-TECH model gaining momentum:

- 2011: 1 school (Brooklyn)
- 2012: 6 schools (Brooklyn, Chicago)
- 2013: 8 schools (New York, Chicago)
- 2014: 27 schools (New York, Chicago, Connecticut)
- 2015: 40 schools (New York, Chicago, Connecticut)
- 2016: 100+ schools (New York, Chicago, Connecticut, Rhode Island, Australia)

P-TECH: Connecting Students with the Skills for In-Demand Jobs
3rd grade @CMS EDU
Maker’s Space is the New School of the Future
Torrae & Ivan Owen building a hand for Liam
Designer is the New Student of the Future
Designing a New Learning Environment

INSTRUCTOR: Paul Kim
Chief Technology Officer and Assistant Dean, School of Education,
Stanford University
October 19, 2012 - December 20, 2012
The next offering of this course will be in Spring 2013.

The Course

What constitutes learning in the 21st century? Should reading, watching, memorizing be the only way to learn? Or could technology (used effectively) make learning more interesting?
Challenges – China, Mideast, social network sites banned, no YouTube access. (Use Youku, 56.com, etc.)

What’s not typical in MOOCs
What’s not typical in MOOCs

http://venture-lab.org/education
Hi,

because many participants in this class figured out problems watching the lectures because of the host (YouTube) or the available bandwidth, I've created low bandwidth versions of every lecture. Within the folders at DropBox and Google Drive, you will find videos (flv files) and only-audio versions (mp3 files, sized roundabout 50% of the videos). I strongly recommend the Open Source VLC player (portable version).

Links
DropBox => CLICK
Google Drive => CLICK

Available audio-only and video files

- DNLE Week 1 Designing a New Learning Environment
- DNLE Week 2 Guest Speaker University of Wolverhampton Professor John Traxler
- DNLE Week 2 Guest Speaker USC Professor Guillbert Hentschka
- DNLE Week 3 Needs Analysis
- DNLE Week 4 Technology, Content, Pedagogy, and Value
- DNLE Week 4 Learning Technology Design Principles I
- DNLE Week 5 Design Principles II
- DNLE Week 5 Design Principles III

This will be updated every week!
If you are in need for different file-formats, please do not hesitate to ask for it.

Marc
Sharing is the New Learning
Why Share Knowledge on Udemy?

**Reach**
Share your knowledge with millions of people around the world.

**Revenue**
Earn money teaching what you know and love.

**Passion**
Join everyday experts excited about teaching online.
Knowledge Sharing on Udemy

26,000
Experts teaching on Udemy

$45M
Course Sales for top 10 Udemy instructors

$7,000
Average instructor earnings

300+
Instructors have earned $100,000+

6 to 8 weeks
Average time to publish a course
Give for Free,
Earn Respect,
Engage Passionately,
Grow by Supporters,
Earn Handsomely

Some Youtubers earned income as high as 15M

¿QUÉ ESTÁ PASANDO CON YUYA?

1.1 billion total views
11.5 million total subscribers

Yuya is a 22-year-old Mexican beauty vlogger. She posts makeup, hair, and other beauty tutorials.

Difference Between MAY and MIGHT

Go Natural ENGLISH To Express & Impress
You are the New Teacherpreneur
Asking critical questions is more important than searching for information
It’s not that I am so smart, but I stay with the questions much longer.
SMILE (Stanford Mobile Inquiry-based Learning Environment)
Every student is engaged

S. Korea. Medical University - BYOD
Moving from lecture-centered to student interaction-centered model.
Developed local evaluation rubrics.
No question? Have you really learned anything?
Adhoc local area mobile learning network – content & application server + router + wifi + storage
One button and runs on a battery

Bridge between MOOCs and Learners in the under-developed regions.
Questions in Swahili and English.
No textbook. Only the teacher owns textbooks.
Learning English by creating questions with photos. (Bottom)
Question: When the moon blocks the light of sun it is called .......

(1) Solar eclipse  
(2) Total solar eclipse  
(3) Partial eclipse  
(4) Lunar eclipse
El Turismo en La Guajira

¿Siendo La Guajira un departamento bien posicionado geográficamente, con diversidad de culturas y vegetación, se encuentra estancado en el turismo? Selecione las respuesta correctas:

A. Falta de liderazgo y empoderamiento de las entidades gubernamentales
B. Falta de compromiso del pueblo Guajira
C. Existen otros sectores de mayor interés para el desarrollo
D. Los indígenas están cerrados al turismo (sin capacitación) e impiden su desarrollo

Raw question: "¿Siendo La Guajira un departamento bien posicionado geográficamente, con diversidad de culturas y vegetación, se encuentra estancado en el turismo? Selecione las respuesta correctas:

A. Falta de liderazgo y empoderamiento de las entidades gubernamentales
B. Falta de compromiso del pueblo Guajira
C. Existen otros sectores de mayor interés para el desarrollo
D. Los indígenas están cerrados al turismo (sin capacitación) e impiden su desarrollo"

Answer Distribution:

A: 9 (82%)
B: 2 (18%)
Applications

**smile**

SMILE turns a traditional classroom into a highly interactive learning environment by engaging learners in critical reasoning and problem-solving while enabling them to generate, share, and evaluate multimedia rich inquiries.

**WIKIPEDIA**

Wikipedia is the world's largest collaborative encyclopedia. This selection of articles for schools is searchable and contains 5000 articles, 26 million words and 56,000 images.

**Khan Academy**

KA Lite allows for blended learning opportunities using the core Khan Academy maths exercises.

**Bible for Children**

Colorful stories from the Bible. Check back daily for a new inspiring devotional.

**edify DRAW & PAINT**

Create your own drawings and paintings!

**PhET INTERACTIVE SIMULATIONS**

Free educational simulations covering a diverse selection of topics designed by the University of Colorado.

**Snap! Learn to Program**

Snap! (formerly BYOB) is a visual, drag-and-drop programming language. It is an extended reimplementation of Scratch (a project of the Lifelong Kindergarten Group at the MIT Media Lab) that allows you to Build Your Own Blocks. It also features first class nests, first class procedures, and continuations. These added capabilities make it suitable for a serious introduction to computer science for high school or college students.

**Turtle Academy**

The easy way to learn programming! Turtle Academy makes it surprisingly easy to start creating amazing shapes using the LOGO language.

**repl.it**

Repl it is an online environment for interactively exploring programming languages. The name comes from the read-eval-print loop, the interactive toplevel used by languages like Ruby, Lisp and Python.

**Learn Javascript!**

Code Monster gets kids excited about programming. It is a combination of a game and tutorial where kids experiment with learning to code.

**SEEDS OF EMPOWERMENT**

Children love to tell stories. However, in many places in the world, their creative voices are rarely heard or cultivated. The 1001 Stories Program conducts workshops wherever there is an interest in enabling children to write stories and provide them with the necessary training resources.

**cK-12**

High quality and curated Textbooks collection on STEM (Science, Technology, Engineering and Math) from ck12.org. PDF format.
$200

$35

4 times faster
4 times more storage
Quad-core CPU
Our system gives statistical analysis on how close each question is to a different type and quality of questions.

Using existing question sets as training data. A few ways to improve the performance of our system:

- Use better and more training data (SMILE accumulating questions everyday. You can help!)
- Enhance our algorithm layers to make our analysis much deeper learning

AlphaGo training itself with 30,000 games a day.
Google's Secrets Of Innovation: Empowering Its Employees

Laura He, CONTRIBUTOR
Covering billionaires and Chinese entrepreneurs, FULL BIO

Innovation Question Fisher: DORY
A Great Question is the New Innovation
SUMMARY
Technology is the New Equalizer
Technology can and will do many things for you, but it cannot learn on your behalf.
Future lifelong learners are the designers and makers who must create their own jobs again and again
Do you want to just go with the flow?
With what do we fill the dash?

After all, life is just a dash.

With what do we fill the dash?
Email your homework to phkim@Stanford.edu

is the New

Emerging Paradigm, Renewed Perspective, Practice

Traditional, Outdated Concept, Behavior