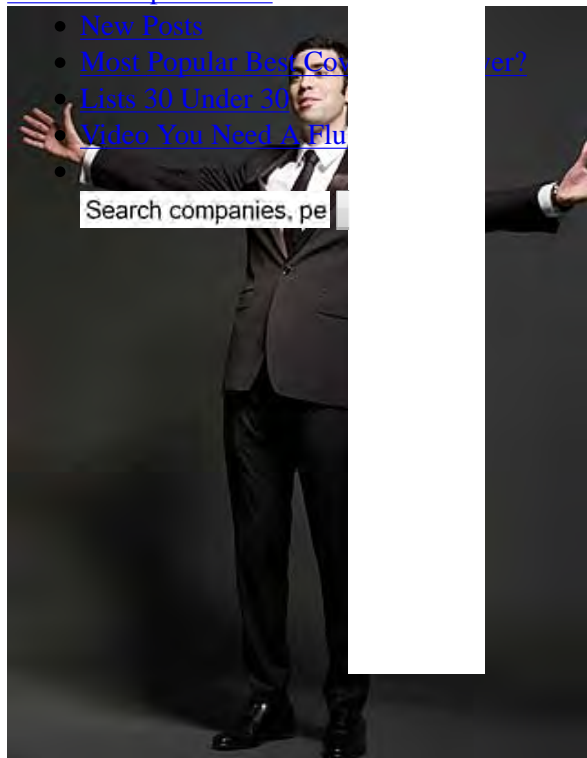


AdChoices [FREE REPORT: Top 10 Stoc](#)[Log in](#) | [Sign up](#) | [Connect](#) | [Help](#)

30 Under 30

[Science](#) | [Healthcare](#) | [Social Entrepreneurs](#)

- [New Posts](#)
- [Most Popular Best Cov](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu](#)

Search companies, pe

- **Joshua Sommer**

- 24
- Executive Director
- [Chordoma Foundation](#)
- [Gallery: 30 Under 30: Science & Healthcare](#)
- [Video: A Conversation With Joshua Sommer](#)

When Josh Sommer was a freshman at Duke University, he was diagnosed with chordoma, a rare bone cancer for which there was a 30% cure rate, no approved drugs, little research and a seven year average survival. "Frankly, being 18 years old and having a lot to look forward to I didn't want to accept those statistics," says Sommer. So he joined the only federally-funded chordoma research lab (coincidentally also at Duke) in the country, and spent two years hunting for new drugs. But the lab didn't have the money or materials needed to make real progress: tumor tissue, cell lines and animal models. He dropped out of school to found the Chordoma Foundation, which to date has raised \$2.5 million, funding research in 11 labs. His advice to people diagnosed with a potentially fatal disease? "You have a lot of power." -- Reported by [Matthew Herper](#), [Vanna Le](#) and [Samantha Sharf](#)

Joshua On Social

•

- 

Josh Sommer
Co-founder and Executive Director at Chordoma Foundation
364 Durham, North Carolina Area

Profile

545

Forbes

- New Posts
- Most Popular Best Cover Letter Ever?
- Lists 30 Under 30
- Video You Need A Flu Shot

618

o **Christina Agapakis**

- o 28
- o Postdoctoral Research Fellow
- o UCLA
- o

thetic biology has been called "biotech on steroids": a new way to do genetic engineering. For Agapakis, this means working on engineering new relationships between organisms, from the symbiotic chloroplasts that make plants green to the communities of bacteria that make cheese. She is a 2012 L'Oréal USA Women in Science awardee.

0



- o **Qing Cao**

- o 29
- o Research Staff
- o IBM T.J. Watson Research Center
- o

Cao is working to use carbon nanotubes to create a new kind of electronics that will replace silicon and keep Moore's law from slowing down. He's published 22 scientific papers in prestigious journals, and they have been cited by other scientists 1,300 times. In a 2008 Nature paper, he and colleagues found a way to print networks of nanotubes on bendable plastic and use them to create a complex integrated circuit.



- o **Cindy Chang**

- o 28

- o Medical Student

- o Cleveland Clinic Lerner College of Medicine

364

ducted research that's already changed the way that nutrition supplements are distributed in Africa by the United Nations World Food Programme. She helped conduct a 2,700-patient clinical trial of three nutritional elements in Malawi, and found a cheaper nutritional supplement was just as good as more expensive options. She led a second study of 2,000 children in Malawi found far more were malnourished than was generally

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-



submit

618

- o **Adrian Cheng**

- o 28

- o Scientist

- o Allen Institute For Brain Science

As a part of billionaire Paul Allen's brain-mapping team at the Allen Institute For Brain Science, Cheng invented powerful non-invasive, high-speed microscope technology for imaging the activity of thousands of cells in the brain simultaneously, in real time, offering a view of neural circuits at work in ways previously not possible. The work was published in Nature Methods in 2011.

0



- o **Paige Cramer**

- o 28

- o Associate Principal Scientist

- o Merck

- o

An Alzheimer's sleuth. Her research as a PhD candidate found that a drug, Bexarotene, stimulated the bodies of mice to get rid of a protein thought to be involved in causing Alzheimer's in humans. The work was published in Science and resulted in a biotech, Rexceptor. Wanting the resources of drug giant, she joined Merck in October 2012.



- o **Laura Deming**

- o 18
- o Partner
- o Floreat Capital
- o

364 At 18, Deming is already a venture capitalist, working closely with biotech legend Corey Goodman. Obsessed curing aging, she began working in labs at 12, entered MIT at 14. Frustrated that such work was not being commercialized, she obtained the backing of Facebook founding investor Peter Thiel through the 20under20 fellowship to start an anti-aging focused VC fund.

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)

- [Video You Need A Flu Shot](#)
- [Nicholas Downing](#)

submit

618

- o 27
- o Medical Student
- o Yale University
- o

of the youngest-ever first authors published in the New England Journal of Medicine. His work, funded by Pew Foundation, showed that contrary to popular belief, the Food and Drug Administration is as fast or faster regulators in other countries at approving new medicines. The study impacted negotiations in Washington and a law that governs FDA funding. New research will focus on novel mechanisms to finance drug discovery.

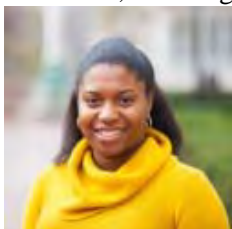
0



- o **Christina Fan**

- o 29
- o Director of Technology Development
- o Immumetrix
- o

Previously, Fan developed a technique that allows scientists to test a baby for Down syndrome with a simple blood test that counts fetal DNA in the mother's bloodstream. This year she and her former Stanford colleagues published a paper in Nature outlining a way to use a related method to determine the baby's entire genome from a blood test, allowing easier prenatal genetic testing.



- o **Christine Fleming**

- 29
- Assistant Professor
- Columbia University
-

364 Fleming created optical imaging catheters to be able to get detailed images of the heart wall of a living animal. could lead to new ways for doctors to get real-time images of the moving muscle in the heart wall, which would allow doctors to better diagnose diseases, particularly those in which the heart's rhythms become irregular, even to treat that disease less invasively, potentially by burning heart disease using radio frequency waves.

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
- **Vipul Goyal**

submit

618

- 29
- Microsoft Research India
- Microsoft

al works on “position-based cryptography”—using someone’s geographic position as a decryption key so that an eavesdropper at a different location could unscramble a secret message. Goyal and fellow researchers showed it would be possible to use simple measurements, communicated between sender to receiver, to prove the recipient’s location and foil anyone trying to spoof that position. The result could be seamless, location-based security.

0

- **Pierce Graham-Jones**

- 29
- West Health Innovator-in-Residence
- Department of Health and Human Services
-

Sponsored by West Health, he works at the U.S. Department of Health And Human Services, and is unlocking electronic health data and driving innovation using the data. One project aims to give consumers a Blue Button to securely access their health record on any app. He has also been a leading advocate for the need to include health IT skills in the education of new physicians, which will help lower the cost of care.



- **Mitchell Guttman**

- 28

- Assistant Professor

- Caltech

-

Guttman led the discovery of a whole new type of gene. Scientists used to think of genes as simply recipes for proteins. These traditional genes account for 1% of the human genome; the remainder was considered junk. But he

364

research team that found something called a lincRNA, a stretch of genetic material that doesn't code for a protein but instead acts as a genetic regulator, controlling how embryos develop and playing a role in human disease.

545

- [New Posts](#)

- [Most Popular Best Cover Letter Ever?](#)

- [Lists 30 Under 30](#)

- [Video You Need A Flu Shot](#)

- [Isaac Kinde](#)

submit

618

- 29

- MD-PhD Candidate

- Johns Hopkins School of Medicine

-

He is developing techniques to improve the accuracy of DNA sequencing technology and demonstrating that it can be used to detect cancers arising from the colon, pancreas, and ovaries in a simple, noninvasive manner.

Already, several patents have been applied for and he's been published in Science Translational Medicine, Nature and other journals.

0



- **Suhasa Kodandaramaiah**

- 28

- Founder

- Neuromatic Devices

-

Georgia Tech grad student created robots that can measure electrical potentials and genetic changes in brain cells more efficiently than a human scientist; result was published in Nature Methods. Started company to commercialize them.



- **Kyle Lancaster**

- 29

- Assistant Professor
- Cornell University

Solved an old chemical puzzle. Much life on earth depends on the nitrogen cycle: ability of bacteria to break the strong chemical bonds of nitrogen in the air to create ammonia, which fertilizes the soil. But nobody knew the full chemical structure of the enzyme that does this. Lancaster proved that the mysterious atom at the enzyme's center in fact, carbon, in a widely cited Science paper.

364



545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Adina Mangubat](#)
- [Video You Need A Flu Shot](#)
- - 25

submit

618

- Spiral Genetics
-

A sequencing is burying biologists in a flood of data. Her company has a cloud-based solution for dealing with it.



0

○ **John Murray**

- 28
- PhD candidate in Physics
- Yale University
-

Creates mathematical models that simulate how networks of neurons in the brain hold short-term memories, and then models how psychiatric diseases like schizophrenia disrupt those networks. The hope is that these computer programs will become good enough to develop new therapeutics.

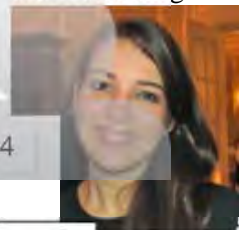


○ **Siobhan Pattwell**

- 29
- Postdoctoral Fellow
- Weill Cornell Medical College
-

Pattwell studies how the chemistry of the brain changes in adolescence. This may help explain why the incidence

of anxiety disorders spikes during the years just prior to and during teen years. She's been published in Science, the Proceedings of the National Academy of Sciences, and The Journal of Neuroscience.



364

545

elli: a hap ro

- [New Post](#)
- [Most Popular Student Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)

ie 1990s, scientists discovered that special types of the genetic chemical RNA can silence other genes. These submit r ts could figure out how to efficiently get them into cells without overwhelming system. Shapiro created a new way of doing that using modified viruses – also allowing her to defend her PhD lightning-fast two years.

618



0

o **Gregory F. Sonnenberg**

- o 27
- o Immunologist
- o University of Pennsylvania

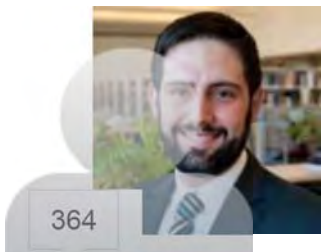
Studies why the immune system sometimes overreacts to "good" bacteria in the intestinal tract, potentially leading to cancer or inflammatory bowel disease.



o **Katie Stack**

- o 26
- o Graduate Student
- o Caltech
- o

Creates the day-to-day plan to determine the observations and experiments NASA's Mars Curiosity rover will make. She is also combining satellite data and data from Curiosity to create a history of the rock layers in the crater where the rover landed. Previous work focused on understanding the sedimentary deposits on Mars and trying to learn where and when water -- and life -- might have existed on Mars.



364

David Strauss

545

- Medical Officer
- [New Post](#) Food and Drug Administration
- [Most Popular Best Cover Letter Ever?](#)

44 [Lists on LinkedIn](#) Lists on LinkedIn: medicine for heart devices. This FDA researcher has made major advances in predicting how well [Videos you will also like](#) electrocardiogram results. He's published 21 peer-reviewed scientific articles on the understanding of the underlying biology of heart disease and predicting which patients will benefit from implanted

submit more in time.

618



Halle Tecco

0

- o 29
- o Founder
- o Rock Health
- o

Tecco founded Rock Health, the first incubator for digital health start-ups right out of Harvard biz school. She has raised money from Kleiner Perkins, NEA, Accel Partner, among others. She likes to think of herself as "matchmaker" for health care entrepreneurs.



Regan Blythe Towal

- o 29
- o Neuromorphic Systems Engineer
- o Qualcomm Research
- o

Towal focuses on understanding how humans gather visual information and perceive the world by studying their eye movements in response to their real-life surroundings. This information can help us develop algorithms so that robots can gather data more efficiently. A 2011 L'Oreal USA For Women Science Fellow.



364

Pedro Valencia

545

- [New Post](#)
- [MIT](#)
- [Most Popular Best Cover Letter Ever?](#)

44 Lists 30 Under 30 tech legend Robert Langer, Valencia figured out how to more quickly synthesize nanoparticles and use them to make drugs more effective and less toxic and to put multiple drugs inside the same nanotechnology. This has resulted in many top-notch scientific publications and the formation of a start-up, Blend

submit

618



Grant Verstandig

0

- o 23
- o Founder
- o Audax Health
- o

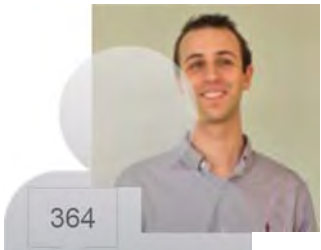
Frustrated by his own experience with consumer health sites after seven knee surgeries, he found a site that allows patients to network with patient communities and consult with experts anonymously, as well as track health information. Raises an astonishing \$30 million in venture money, including the CEO of TIAA-CREF, and John Sculley; former Aetna chairman sits on board.



Daniela Witten

- o 28
- o Assistant Professor
- o University of Washington

Witten became a professor at 26, and is now developing machine learning programs that convert vast amounts of data into useful knowledge. Potential uses: personalizing cancer therapy, understanding genomes, recommending products to shoppers and predicting election results.



364

Adam de la Zerda

545

- [New Post](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 top tech](#)

• [Video You Need A Few Sitg](#)

• [e of blindness. His papers have been published in Nature Medicine, Nature Nanotechnology, and the](#)

618



◦ **Changxi Zheng**

0

- 29
- Assistant Professor
- Columbia University
-

Zheng is trying to create realistic sounds in order to develop immersive virtual realities in computers; eventually, he hopes his machines will help to create realistic natural sounds synchronized with virtual motions. New mathematical methods will automatically produce coupled sounds with movement such as splashing liquids, creating realistic reproductions of our visible and audible physical world.

PHILIPS
NORELCO

Upgrade your shave.

Save \$50.00
on SensoTouch 3D

Clip Coupon

(Discount at checkout)



Forbes

545

- [New Under 30: Behind the Scenes](#)
- [Most Popular Age Caps for the 30-Under-30 black tie photo shoot and learn how Forbes editors compile the list.](#)
- [44 Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)



submit

618



[Harlan Krumholz](#)

Professor of Medicine, Yale University
J. H. Hines Jr. Professor of Medicine at Yale and a leading expert on measuring the quality of health outcomes.

0



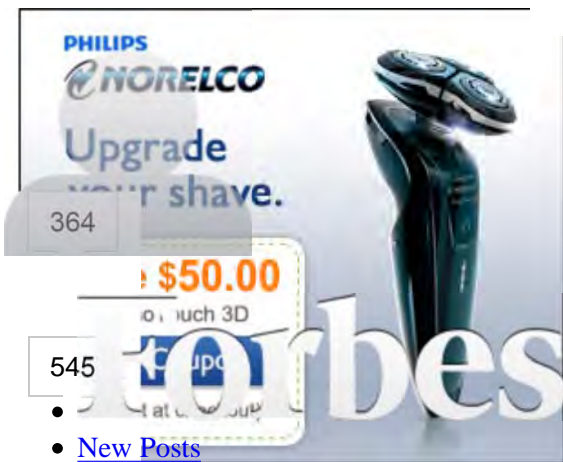
[Andy Plump](#)

Head of Basic Research, Sanofi
Directs early-stage research at Sanofi, one of the largest drug companies.



[George Church](#)

Professor of Genetics, Harvard Medical School
One of the founders of the fields of genomics and synthetic biology; author of Regeneration, a new book on how our ability to re-engineer life could change our world and ourselves.

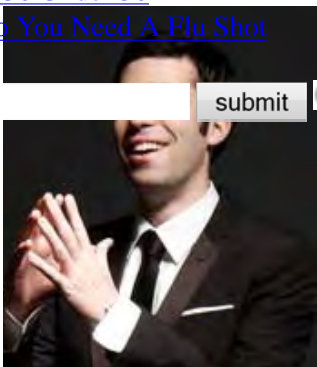


364

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-

618



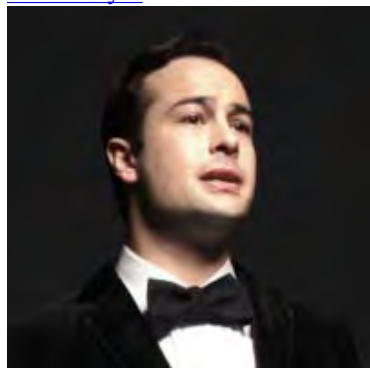
[30 Under 30: Science & Healthcare](#)

0

30



[Art & Style](#)



[Education](#)



364

545

Forbes

rgy

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-


submit

618



[nce](#)

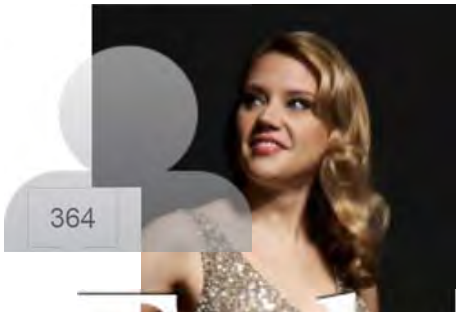
0



[Food & Wine](#)



[Games & Apps](#)



364

Forbes

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-



submit

618



[& Policy](#)

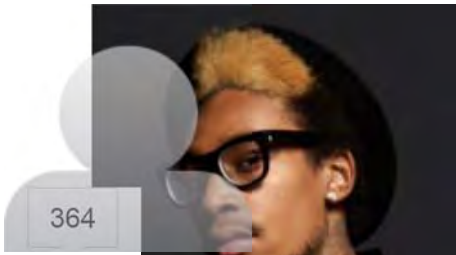
0



[Marketing & Advertising](#)



[Media](#)



364

Forbes

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-



submit

618



[Science & Healthcare](#)

0



[Social Entrepreneurs](#)



[Sports](#)



- [New Posts](#)
- [IPAA Guide](#)
- [Most Popular New User Letter Ever?](#)
- [Lists 30 Under 30](#)
- [its Paper - Top 5 Ways To](#)
- [Video You Need A Flu Shot](#)
- [Electronic Record Compliance](#)

618

ProstateCancer.com/Brockton
 getting treated, get a qualified
 opinion.

[Pacific Seattle Hotel](#)
 c.com/Seattle
 here" Package with Free Parking
 ast. Book Online! AdChoices ▶

0

Inside Forbes



364



545

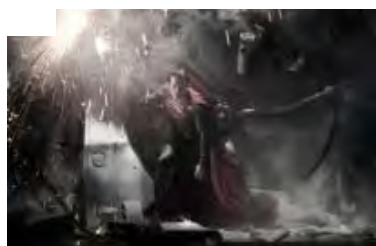
- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
- [Powerful People: The 71 Who Shape The World](#)

618 nearly 7.1 billion people on the planet. These are the 71 men and women who matter the most.



0

[id Karp: 26-Year-Old Whose Tumblr Rules Web](#)



[The Stars To Watch In 2013](#)



[Flats Full Of Cash: Fashion Tycoon Tory Burch Becomes Billionaire](#)



364

[Time Billionaires](#)

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [44 Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
- [Entrepreneurs](#)

submit

618

[style](#)

ifo

- [Jobs Careers](#)
- [Advertising Information](#)
- [Jobs Conferences](#)
- [Investment Newsletters](#)
- [Prints & Permissions](#)
- [Policies and Conditions](#)
- [Privacy Statement](#)

0

- [Contact Us](#)
- [Sitemap](#)
- [Help](#)

Affiliate Sites

- [Forbes China](#)
- [Forbes India](#)
- [Forbes Israel](#)
- [Forbes Middle East](#)
- [Forbes Poland](#)
- [Forbes Romania](#)
- [Forbes Russia](#)
- [Forbes Ukraine](#)
- [RealClear Politics](#)
- [RealClear Markets](#)
- [RealClear World](#)
- [RealClear Sports](#)

Data Partners

- [Market Data by Morningstar](#)

- [Thomson Reuters](#)
- [AdChoices](#)

Publications

364



545

Forbes

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Trial Issue](#)
- [Video You Need A Flu Shot](#)
- [Subscriber Services](#)
- [Back Issues](#)

submit

618

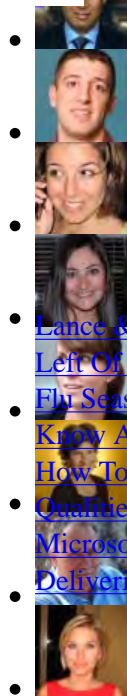
com LLC™ All Rights Reserved

[Unfollow](#)

0

to follow

[Special Feature: Data Driven](#)



- [Lance & Oprah: Destroying What Was Left Of His Reputation](#)
- [Flu Season Etiquette: What You Need to Know About Sickness and the Office](#)
- [How To Be A Super-Achiever: The 10 Qualities That Matter](#)
- [MicrosoftDynamicsVoice: Retail - Delivering The Future Today](#)



Forbes

545

- [New Posts](#)
- [Most Popular Best Cover Letter Ever?](#)
- [Lists 30 Under 30](#)
- [Video You Need A Flu Shot](#)
-

144

submit 

618

0