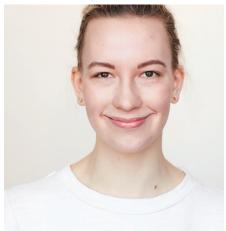


ANNUAL REPORT JUNE 2019





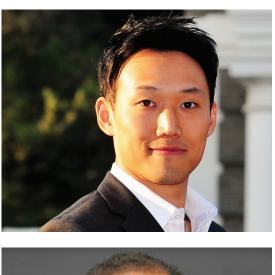














From top left to right: Amanda Raposo '17BUS, Founder of Project Playdate (acquired) | Lizzy Trelstad '16CC, Founder of Beaker | Hitomi Pender '14SEAS, Founder of Link Strollers | Kesha Cash '10BUS, Founder of Impact America Fund | Jason Lau '17SEAS, Founder of Kalo | Vinit Bharara '96LAW, Founder of Some Spider | Lauren Whitehead '20BUS (L) and Nisha Balwani '19BUS (R), Founders of RentAlya | Donnel Baird '09BUS, Founder of BlocPower | Martin Varsavsky '83 SIPA, '85BUS, Founder of Prelude and Fon.

PROGRESS BY THE NUMBERS



30+ ENTREPRENEURSHIP COURSES LISTED IN THE COLUMBIA COURSE CATALOG

THE COLOTIBIA COUNCE CATALOG

1,817 FOUNDERS
BY COLUMBIA UNIVERSITY ALUMNI



\$2.4 MILLION

NON-DILUTIVE GRANTS AWARDED TO COLUMBIA STUDENT FOUNDERS ANNUALLY

5000+ COLUMBIA STUDENTS

ENGAGED IN ENTREPRENEURSHIP PROGRAMS OR PEDAGOGY

392 ALUMNI

WORKING IN VENTURE CAPITAL







FEATURED AT THE STARTUP COLUMBIA FOOD FARE



3,874 STUDENTS & ALUMNI

ATTENDED OUR FIRST FOUR STARTUP COLUMBIA FESTIVALS

5,000+ STUDENTS & ALUMNI
ATTENDED #STARTUPCOLUMBIA FESTIVALS

250 TEAMS

ENROLLED IN THE COLUMBIA STARTUP LAB IN THE FIRST SIX YEARS



\$55 MILLION

FUNDS RAISED BY TEAMS IN THE STARTUP LAB









CORE

1 OF THE LARGEST STUDENT CLUBS ON CAMPUS THAT IS NON-DENOMINATIONAL

5,389 MEMBERS REGISTERED



63 UNDERGRADUATE STUDENT LEADERS



DOLLARS IN CASH GRANTS DISTRIBUTED TO CVC WINNERS IN THE LAST SIX YEARS





JUDGES FROM BEIJING TO BROOKLYN SCORING THE CVC ENTRIES OVER THE LAST SIX YEARS



1.000+ TEAMS

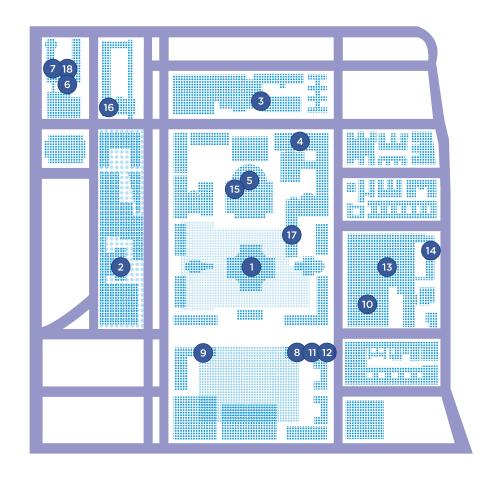
OF STUDENT AND RECENT-ALUMNI COMPETING THE CVC IN THE LAST SIX YEARS



COLUMBIA AND NYC

If we are to become a university renowned for innovation and entrepreneurship, success must come from collaborations across domains, between our centers of innovation, and among the vast intellectual resources of our students, alumni, and faculty communities.

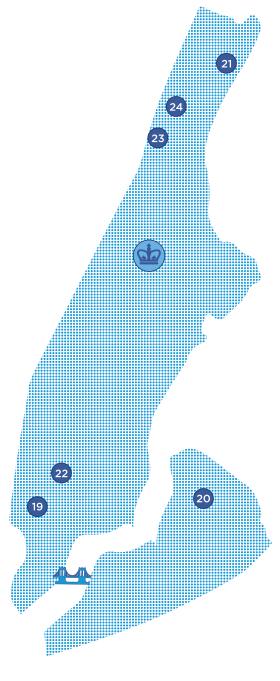
ON-CAMPUS COMMUNITY OF COLLABORATORS



- COLUMBIA ENTREPRENEURSHIP INNOVATION DESIGN
- 2 Entrepreneurship@Athena, Barnard
- 3 EdLab at Teachers College
- 4 Columbia Engineering Entrepreneurship
- 5 Eugene Lang Entrepreneurship Center
- 6 Columbia Entrepreneurship Design Studio
- 7 Columbia Entrepreneurship Law Studio
- 8 Columbia Organization of Rising Entrepreneurs
- Brown Institute for Media Innovation

- 10 Columbia Law Entrepreneurship Society
- 11 Columbia College Entrepreneurship Initiatives
- Res. Inc.
- Global Social Entrepreneurship at SIPA
- Summer Startup Internship Program & Startup
 Job Fair at the Center for Career Education
- 15 Tamer Center for Social Enterprise
- Columbia Technology Venture + Lab to Market Accelerator Network
- 17 Metaprop Pre-Accelerator at Columbia
- 18 Columbia Bartending Agency (CBA)

FOSTERING A NETWORK OF INNOVATION COLLABORATORS ACROSS CAMPUS AND ACROSS TOWN



COMMUNITY OF CO-WORKING SPACES AND ACCELERATORS ACROSS NYC

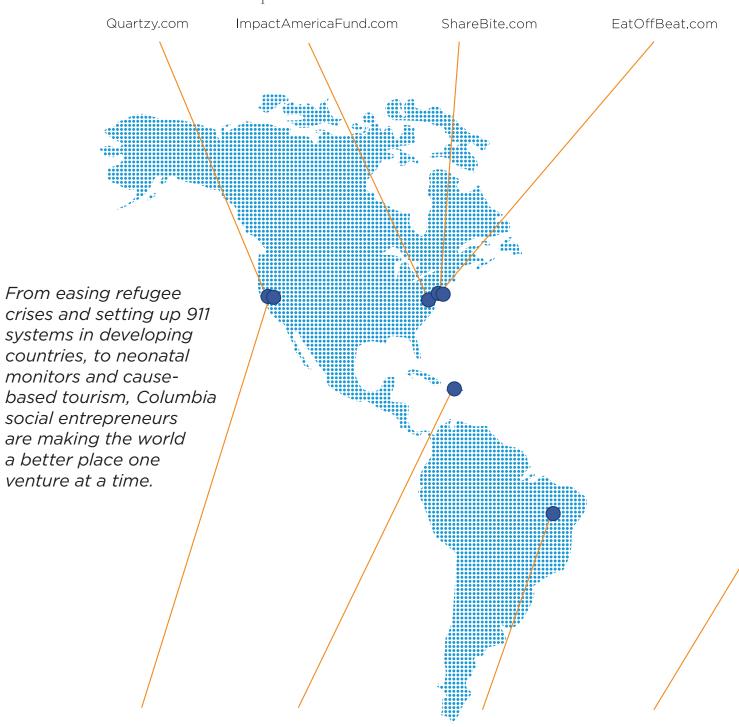
- 19 Columbia Startup Lab
- 20 New Lab
- 21 The Campbell Sports Center
- MetaProp NYC Accelerator
- 23 Mailman School of Public Health
 - 4 Columbia University Medical Center

GLOBAL INNOVATION WITH A SOCIAL MISSION

QUARTZY

IAF Impact America Fund

sharebite EAT OFFBEAT











COLUMBIANS TURN INNOVATION INTO IMPACT ON A GLOBAL SCALE



FUNDING SOURCES

Each year, in a multitude of highly competitive programs, Columbia grants **\$2.4 million** to startups across campus through its programs. Here are just a few.

Columbia Venture Competition (CVC)- \$250,000

The CVC has five tracks or challenges, open to all students and recent alumni from the worldwide Columbia community. CVC judges come from across Columbia's worldwide alumni community from Brooklyn to Beijing, representing diverse backgrounds and wide-ranging sets of expertise.





Lang Fund- \$200,000

The Eugene M. Lang Entrepreneurial Initiative Fund fosters an entrepreneurial environment at Columbia Business School by providing early stage investing opportunities to qualifying student business initiatives.



Tamer Fund- \$175,000

The Tamer Fund for Social Ventures ("the Fund") provides seed grants to nonprofit, for-profit, or hybrid early-stage Columbia University affiliated social and environmental ventures.



The Tamer Center for Social Enterprise



Innovation Grant- \$110,000

This grant identifies driven undergraduate entrepreneurs with brilliant innovations and aims to—with a little mentorship in funding—turn innovations into applied solutions.

IT TAKES MORE THAN IDEAS AND GRIT TO GET A STARTUP OFF THE GROUND



cFUND Ignition Grants- \$50,000

The Columbia Engineering cFUND Ignition Grants are financial grants to assist Columbia University students in launching new businesses, social and not-for-profit ventures. The Grants support the initial stages of early venture development from formation and IP protection to building prototypes and creating proofs of concept.

Magic Grants- \$500,000

Through its Magic Grants program, the Brown Institute at the Columbia School of Journalism annually awards grants designed to encourage and support new endeavors in media.

THE BROWN INSTITUTE FOR MEDIA INNOVATION



POWERBRIDGE NY

Powerbridge Accelerator- \$100,000

Teams are given funding to conduct customer discovery, identify their initial target market, and to develop prototypes to conduct in-field testing and move the energy-related technology closer to commercialization.

Translational Therapeutics Accelerator- \$300,000

The Translational Therapeutics Resource (T-Rx) is an accelerator program designed to leverage Columbia's proficiency in drug discovery and provide access to industry experts with the goal of advancing novel therapeutics from the lab towards the path of commercialization.



COLUMBIA UNIVERSITY MEDICAL CENTER

Translational Therapeutics Resource



NYC Media Lab- \$125,000

NYC Media Lab is dedicated to driving innovation in media and technology by facilitating collaboration between the City's universities and its companies.

Columbia Biomedical Accelerator- \$680,000

The BioMed Accelerator grants serve as a bridge from proven concept to commercial investment.



\$9 BILLION

MONEY RAISED BY COLUMBIA FOUNDED COMPANIES IN 2019

\$2.4 MILLION

AWARDED TO COLUMBIA STARTUPS BY THE UNIVERSITY

5,000

COLUMBIA STUDENTS
ENGAGED IN
ENTREPRENEURSHIP
PROGRAMS & PEDAGOGY

3,000+

COLUMBIA STARTUPS FOUNDED IN THE LAST DECADE

392

ALUMNI WORKING IN VENTURE CAPTIAL

FUNDING HIGHLIGHTS

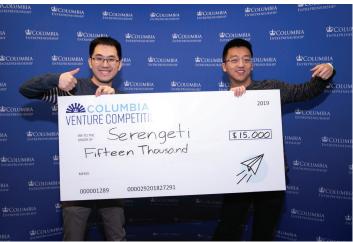
Every year, Columbia gives out \$2.4M to startups across campus through its programs, and the Columbia Venture Competition is a major part of that funding. The Columbia Venture Competition is a partnership between Columbia College, Columbia Engineering, Columbia Entrepreneurship, the School of International and Public Affairs (SIPA), and the Alliance Program that works with French universities Sciences Po, Sorbonne University, and École Polytechnique, and gives out \$250K.

More than 200 teams of Columbia entrepreneurs competed this year, with 150 alumni judges Columbia alumni judges from Brooklyn to Bordeaux to Beijing lending their time, talent, and expertise to narrow down the field and select the winners.











From top left to right: Columbia Engineering Dean Mary Boyce, and CapCell Founders Ben Young '18GSAS (L) and Jon Zaikowski '19SPS (R) | Moon founders Kenneth Kruger '12SEAS (L) and Khurram Kalim (R) | Serengeti founders Jie Feng '17SEAS (L) and George Liu '17CC (R) | StreetSmarts VR founders Alice Formwalt '18NYU (L) and Oliver Noteware '18BUS (R)

COLLABORATORY

AT COLUMBIA UNIVERSITY

Co-founded by Columbia Entrepreneurship and the Data Science Institute, the Collaboratory has created a fund that incentivises faculty across the Columbia to develop curricula that teaches all students, across all traditional domains, how to use the tools of data and computational science.







JOURNALISM



URBAN PLANNING



BUSINESS ANALYTICS



BIO STATISTICS



PUBLIC HEALTH



ARCHAEOLOGY



COMPUTER SCIENCE



PHYSICAL SCIENCES



HUMANITIES



PUBLIC POLICY



















Data science is indispensable to virtually every scholarly initiative at the University dedicated to addressing a societal problem.

-Lee C. Bollinger



DATA AND SOCIETY

The increasing availability of data and computational power in society is impacting our world in profound ways. As our ability to generate, store, and analyze data grows by the day, so do the opportunities for using those data to improve our economy, our security, the environment, and human health.

In order to be effective, the leaders of tomorrow—whether they pursue careers in academia, government, business, industry or other avenues—will need to understand how data and data-science are influencing their fields and organizations, now and into the future.

THE FIRST 11 INTERDISCIPLINARY COLLABORATORY PROJECTS ARE ALREADY YIELDING 25 NEW COURSES





JOURNALISM



POINTS UNKNOWN: NEW FRAMEWORKS FOR INVESTIGATION AND CREATIVE EXPRESSION THROUGH MAPPING

A collaboration between Columbia Journalism & GSAPP

PROGRAMMING, TECHNOLOGY, AND ANALYTICS CURRICULUM FOR COLUMBIA BUSINESS SCHOOL

A collaboration between Columbia Business School & Columbia Engineering





BIO STATISTICS PUBLIC HEALTH







ANALYSIS TO ACTION: HARNESSING BIG DATA FOR POPULATION HEALTH

A collaboration between Biostatistics & Health Policy and Management at the Mailman School of Public Health

DATA: PAST, PRESENT, AND FUTURE

A collaboration between Columbia College & Columbia Engineering











DATA SCIENCE FOR IMAGING THE PHYSICAL WORLD

A collaboration between Electrical Engineering & Arts and Sciences

COMPUTATIONAL LITERACY FOR PUBLIC POLICY

A collaboration between the School of International and Public Affairs & Computer Science







"Human-centered design" gives entrepreneurs, students, and faculty an agile approach to gaining critical problem-framing and problem-solving insights.

Designing for Success

The Design Studio teaches customer-centric methodologies for developing innovative and practical solutions to ill-defined problems. From high-tech websites to low-tech infant warmers, human-centered design leads to the creation of great solutions through a deeper understanding of people and their needs.

How Design Thinking Works

The human-centered design approach is a creative process that helps innovators glean insights and develop appropriate solutions for tough challenges. It begins with innovators establishing a deep understanding of needs—their own needs, their target market's, or the needs of their end users—in



order to then frame problems, rapidly generate prototypes, and build viable solutions.



EXPLORE

The first phase of the design process is to develop empathy for your user, the person for whom you are creating a solution. By the end of your exploration, you will develop great insights that will help you build a solution that fits their context.



REFRAME

In human-centered design, your initial assumptions are generally never completely correct. After gaining deep user insights, it's time to come back and reframe the information you've learned and start to see where your ideas and solutions can fit into the bigger picture.



GENERATE

Developing a creative idea can be only half the battle. Once you have information on user's needs, the idea generation phase of design brings you through brainstorming and ideation exercises to develop a slew of new ideas.



PROTOTYPING

A good idea deserves to be tested, that's where prototyping comes in. Prototyping is a way of learning more about the user by actually having them interact with an early

APPROACHING CHALLENGES DIFFERENTLY WITH DESIGN THINKING

version of a solution. Your prototype will most likely not be perfect the first time.

The Design Studio

The Design Studio engages with every school and level of Columbia University to promote thoughtful creativity and opportunities for experiential learning with workshops, programs, and classes such as Design for Social Innovation. Through the Design Studio, faculty, students, and alumni can create real impact on pressing problems in real time.

















Designer-in-Residence, Adam Royalty working with students in the Design Studio.

INNOVATION AND EXPERIENTIAL LEARNING CLASSES

In order to understand the problems facing their field, students should get out of the building and test their hypotheses by talking to all the stakeholders customers, regulators, etc. With that information, they can refine their understanding of the problems and rapidly build iterative solutions.

> -Steve Blank, Senior Fellow for Entrepreneurship at Columbia University



Venturing to Change the World, Columbia College

Changes in technology and society are increasing the power of small teams to impact everything. Developed by Dr. Amol Sarva '89CC and taught by Jenny Fielding '94BC, "Venturing to Change the World" is about the ideas, processes, frameworks, and context of startups and entrepreneurship. The course introduces undergraduates to the intellectual foundations and practical aspects of entrepreneurship and explores the entrepreneurial mindset and the key steps in building a venture.

Jenny Fielding '94BC

Making History Through Venturing

Technology-driven startups are making history, an undertaking that used to be for the masters of powerful institutions. Now nearly everyone is involved. This course delves into the four major drivers of how to make history happen, drawn from the emerging doctrine of Silicon Valley entrepreneurship: people, product, market, and financing. We aim to look broadly at commercial, social, technical, and non-technical new ventures. Our approach will be rooted in the history and theory of revolutions, movements, discoveries, and innovation.



Dr. Amol Sarva '98CC



Venturing to Change the World introduced us to the universe of startups; from the philosophy of entrepreneurship to preparing investor-ready pitch decks. This interactive class made waking up early on Fridays a highlight of my week.

- Justice Betty '18GS

INTERDISCIPLINARY PROBLEM SOLVING

Computational Propaganda – Hacking the Digital Tools that Direct our Attention

Journalism and technology take similar kinds of actions in the world. Both tell stories about who we are and how we live. That new app tells us about our lives; makes us feel modern or hopeful; or concerned or moved to action. Columbia Journalism Professor Mark Hansen works with data in an essentially journalistic practice, crafting stories through algorithm, computation, and visualization. In his course, Computational Propaganda, he focuses on tools and techniques that have achieved new prominence in the recent national election. He discusses how, over the last few years, we have seen how these tools for directing our attention can be hacked.



Mark Hansen

Battle-Tested Innovation: Hacking for Defense

Co-developed at Stanford University by Steve Blank, Columbia University Senior Fellow for Entrepreneurship, Hacking for Defense is a battle-tested problem-solving methodology.

Hacking for Defense[™] allows students to develop a deep understanding of the problems and needs of the DOD and the Intelligence Community. For government agencies, it allows problem sponsors to increase the speed at which their organization solves specific, mission-critical problems.



Sarah Holloway '03SIPA.

Design for Social Innovation

Design For Social Innovation (DFSI) is a project-based initiative where Columbia University students and faculty support social enterprises and nonprofit organizations to solve complex, ambiguous global problems through human-centered design. The initiative combines an interdisciplinary cohort of exceptional students, cutting edge research, design + passionate organizations to deliver a positive impact. This includes graduate and undergraduate students from across the university.

LAUNCHING COLUMBIA



The profiles of the resident ventures in The Lab over the past five years reflect the diversity of business models that distinguishes New York City's startup ecosystem.

"The Lab"

Perhaps the best known of all the entrepreneurship initiatives across the Columbia innovation community is the Columbia Startup Lab. Since the ribbon cutting in July of 2014 "The Lab" has taken on symbolic importance as a beacon for Columbia's entrepreneurship programming. It serves not only as "Corporate Headquarters" for our startups, but also as a convening place for a wide-ranging array of groups from the undergraduate accelerator Alma Works to the bi-monthly Female Founders breakfast.

The Lab is a testimony to Columbia University's longstanding spirit of collaboration and burgeoning entrepreneurial community. It is the result of a unique partnership between Columbia Entrepreneurship and the deans of Columbia College and the Schools of Business, Engineering, Law, Public Health, and International and Public Affairs.

The profiles of the resident ventures in The Lab over the past five years reflect the diversity of business models that distinguishes New York City's startup ecosystem. Each of the five cohorts in the Lab has included social ventures, food, fashion, finance, advertising, and technology startups. Each cohort has been made up of an interdisciplinary mix of educational backgrounds, and each represents a diversity of cultures. Ensuring gender diversity among the founders has always important value of the participating schools sponsoring the Lab. At least 40% of the ventures in each cohort have been female-founded or had a gender-diverse founding team.



250 TEAMS
ENROLLED IN THE COLUMBIA STARTUP LAB
IN THE FIRST FIVE YEARS





WHERE COLUMBIA FOUNDERS TAKEOFF























COLUMBIA STARTUP LAB ALL STARS

From top left to right: Co-founders TextIQ, Apoorv Agarwal '16GSAS, Omar Haroun '12JD/MBA | President Bollinger and WordsEye Founder, Bob Coyne '17GSAS | Exubrancy Founder, Liz Wilkes '13BUS | Univate co-founder, Jide Adebayo '14CC | Wandering Bear cofounder, Matt Bachmann '15BUS | Bundle Organics Founder, John Mascari '08CC | Sailo co-founder, Delphine Braas '14BUS | Columbia Entrepreneurship's Nat Kelner.

COMMUNITY GATHERING

Over the last six years, Columbia has attracted many of the world's most celebrated entrepreneurs, innovators and thought leaders. These gatherings are among the best ways to invigorate a culture of Innovation and Entrepreneurship.























From top left to right: Steve Blank | Jack Dorsey | Peter Thiel | Bill Campbell '62CC, '64TC | Drew Houston and Walt Mossberg '70JRN | David J. Stern, Esq. '66LAW | Arianna Huffington | Ben Horowitz '88CC | Evan Spiegel | Bill Gates and Warren Buffet '51BUS | Eric Schmidt.























From top left to right: will.i.am | Gordana Vunjak-Novakovic, Columbia University Professor | Jacob Weisberg, Chairman of Slate | Peter Keleman | will.i.am with students of CORE, Chair of Earth and Environmental Sciences at Columbia.



STARTUP LAW FOR LAW STUDENTS AND STUDENT FOUNDERS

Columbia Entrepreneurship Startup Law Studio

Along with Perkins Coie, the Startup Law Studio Columbia Entrepreneurship provides free professional startup law office hours for student startup teams in the Columbia community. We host regularly scheduled 30 minute sessions held both at the Columbia Startup Lab as well as on Columbia's campus for legitimate student startup teams to address their legal questions.

All sessions are conducted on a pro-bono basis and Columbia Law School Students who seek to gain venture-law experience are invited to observe the office hours.















The Startup Law Studio was a fantastic experience that we would not normally be exposed to while at Law School.

- James Induc Kim '16LAW







The session was especially helpful because the attorneys had legal expertise and business insight. It was a great opportunity for a startup like us.

- Tak Yeong Do '14SEAS, CEO of PAIKON

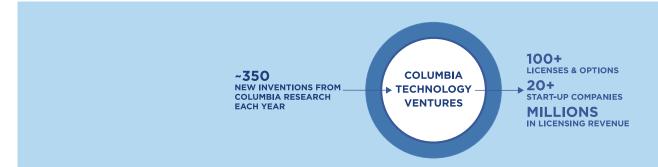
CENTERS OF EXCELLENCE AROUND COLUMBIA

COLUMBIA LAB-TO-MARKET NETWORK



Columbia Technology Ventures.

Columbia Technology Ventures is the technology transfer office for Columbia University and a central location for many of the technology development initiatives, entrepreneurial activities, external industry collaborations, and commercially-oriented multidisciplinary technology innovations across the university. CTV's core mission is to facilitate the transfer of inventions from academic research labs to the market for the benefit of society on a local, national, and global basis. Each year, CTV manages more than 350 invention disclosures, 100 license deals, and 20 new IP-backed start-ups, involving over 750 inventors across Columbia's campuses.



Through CTV, the Columbia Lab-to-Market Network

Entrepreneurial education and access to funding for validation and prototyping is critical to transitioning early-stage technologies out of the lab and bringing them to market at a faster rate. Columbia has extensive experience founding and supporting successful accelerator programs to provide our promising early-stage technologies with mentorship and support resources, direct funding, educational boot camps, networking opportunities with industry representatives and the venture investor community.

The Columbia Lab-to-Market Network currently encompasses six proof-of-concept programs across separate industries: medical technologies, clean technology & energy, digital media, and therapeutics. Many of these programs are explicitly multi-institutional and involve extensive collaboration with our peer universities and their tech transfer offices.



CENTERS OF EXCELLENCE AROUND COLUMBIA

CORE THE COLUMBIA ORGANIZATION FOR RISING ENTREPRENEURS



CORE is perhaps Columbia Entrepreneurship's closest and most vibrant partner. It is an honor to work with such brilliant and innovative students. Comprised of undergraduates from Columbia Engineering, Columbia College, General Studies, and Barnard, CORE lays claim to being the largest non-denominational student club on campus.

impulse

8 CORE Impulse

CORE Impulse is a passionate group of people from CORE dedicated to sharing and engaging in meaningful discussion with the entrepreneurship and innovation community. They write about programs, competitions, events, and guest lecturers on campus. They cover breaking trends in technology and business. And they also write about the founders in New York like Scott Lee '14CC, founder of tutoring platform Gooroo and Brian Pallas '14BUS founder of Opportunity Network.





INNOVATION & ENTREPRENEURSHIP

COLUMBIA'S STUDENT ENTREPRENEURSHIP CLUB

almawurks



Almaworks

Conceived and run by CORE, AlmaWorks is Columbia University's student startup accelerator for Columbia student entrepreneurs. Alma Works takes no equity and only aims to help early-stage startups run by student entrepreneurs achieve significant and sustainable growth. The program lasts for an intensive eight weeks. Each week consists of three-hour sessions each Friday. While no session it typical, over the course of the program, teams will participate in workshops, attend office hours with mentors, hear from speakers and alumni, and connect with the extended CORE and Almaworks community. Students are also expected to be working on their startups throughout the program.



CENTERS OF EXCELLENCE AROUND COLUMBIA

Columbia Business School The Eugene Lang Entrepreneurship Center







5 LANG ENTREPRENEURSHIP CENTER

The Eugene Lang Entrepreneurship Center works to instill entrepreneurial thinking in all Columbia Business School students and to create a community of business practitioners with a lifelong commitment to achieving social and economic progress through entrepreneurship.

To help startups navigate their path through entrepreneurship and its many permutations, The Center has created an entrepreneurship curriculum framework, Think, Start, Scale, Invest, which guides students towards classes they can take to help them think, start, scale and get funding.

CBS also creates resources and opportunities to plug into the vibrant ecosystem offered through the student body and New York as a whole: CBSStartups.com, helps all students, alumni, faculty and the public understand the CBS startup network by identifying companies, funds and angel investors that are alumni of Columbia Business School, and the school hosts an annual Alumni Networking Night. The Lang Center also hosts a breakfast series, in partnership with US Trust, to give Columbia Business School alum, students and faculty the opportunity to discuss topics and network in various industries.

CBS further supports startups with funding, whether it be through the Eugene M. Lang Entrepreneurial Initiative Fund, which provides early-stage investing opportunities to qualifying student business initiatives; the Summer Startup Track, which supports student entrepreneurs heading into their last year of business school; or the Lang PhD Fellowship, awarded to PhD students whose research relates to entrepreneurship.



INNOVATION & ENTREPRENEURSHIP

15 TAMER CENTER FOR SOCIAL ENTERPRISE



The Tamer Center for Social Enterprise educates leaders to use business tools, entrepreneurial skills, and management skills to address social and environmental challenges. It achieves this by supporting the creation and communication of new

The Tamer Center for Social Enterprise

ideas, and by providing curricular and extracurricular opportunities for Columbia University students in four key areas of focus. These four areas—sustainability and the environment; international development; public and nonprofit management; and social entrepreneurship—reflect its particular strengths and student interests. Overall, Tamer's goal is to be the pre-eminent generator of leadership—both people and ideas—in the world of social enterprise.

There are over a dozen course offerings focused directly on social enterprise, and a wide range of extracurricular opportunities that satisfy the many interests that students wish to pursue. Over 600 students are involved in its clubs, and a rapidly growing number of prospective students identify social enterprise as one of their primary interests.

Traditionally been student-oriented in its efforts, the Tamer Center program remains first and foremost focused on developing the next generation of social enterprise leaders. It now has a full menu of opportunities that prospective students have come to expect from a flagship program in social enterprise: Its summer internship and loan assistance programs support students working with organizations in the United States and abroad; the Tamer Fund for Social Ventures provides seed grants for Columbia-affiliated social venture start-ups; a student-run investment fund, Microlumbia, sends students around the world to evaluate and invest in microfinance institutions; consulting programs send students from Harlem to Haiti to provide guidance and advice to nonprofits and budding social entrepreneurs; and its nonprofit board leadership program connects students to board mentors at nonprofits from Literacy Inc. to Carnegie Hall.







Top right: Jon Friedland '97BUS and Shaiza Rizavi '96BUS, co-founders Folia Water were the recipients of this year's Horton Award.



CENTERS OF EXCELLENCE AROUND COLUMBIA



OLUMBIA COLLEGE ENTREPRENEURSHIP INITIATIVES

Columbia College Entrepreneurship Initiatives are an integral part of the entrepreneurship ecosystem on campus, helping undergraduates innovate and create ventures through its coursework and program support.

A cornerstone of the coursework available for the entrepreneurially minded is Venturing to Change the World, which introduces the intellectual foundations and practical aspects of entrepreneurship. Venturing explores the entrepreneurial mindset, team formation, idea selection, how ideas become products with markets, and the key steps in building a venture.

For those moving beyond the ideation phrase, Columbia College provides support as well. The College helps fund ventures through its sponsorship of the Undergraduate Challenge in Columbia Entrepreneurship's \$250K Columbia Venture Competition. Students from Barnard College, Columbia College, General Studies and Columbia Engineering may enter to win funds for the most innovative and viable business proposal. The top three teams split a \$50,000 prize.

RES. INC.

A combined program between Columbia Engineering and Columbia College, **RES. INC.** provides a gathering place for the undergraduate entrepreneurial community. As part of the University Living and Learning Center, Res. Inc. students live and work together in a community focused on entrepreneurship and the cultivation of innovative ideas. Students learn to use Lean Launch methodologies and participate in weekly seminars led by domain area experts within the Columbia network.



Career Education



SUMMER STARTUP INTERNSHIP PROGRAM AND STARTUP JOB FAIR

It's important for students interested in entrepreneurship to land a summer internship at a startup, but it's impossible to live off of any stipend that comes with it. This internship fund provides up to \$5,000 to offset living expenses . Rising sophomores, juniors, and seniors from Columbia College, Columbia Engineering, or General Studies in good academic and disciplinary standing with at least a 3.0 GPA and Columbia grant-based financial aid can apply for this help during their unpaid or low-paid internship. **The Summer Startup Internship Program** is sponsored by a generous grant from Columbia College. The Center also provides opportunities for students to gain access to job opportunities at startups.

INNOVATION & ENTREPRENEURSHIP

COLUMBIA ENGINEERING ENTREPRENEURSHIP

The culture of applied innovation that is **Columbia Engineering Entrepreneurship** supports undergraduates and graduates in the classroom and beyond to creatively solve industry and humanity's biggest questions

Tapping into the vast creative network in New York City, Columbia Engineering collaborates with NYU and CUNY to serve as the home for NYCRIN, the headquarters for the NSF Innovation Corps ("I-Corps™") national program in NYC. I-Corps activities support innovators by providing education in the earliest stages of venture initiation, assisting engineers in learning about the marketplace, and linking them directly to the investment community.

Columbia Engineering also provides its own physical space for Columbia-affiliated faculty, staff, post-docs, and students to develop their ideas into tangible items. This Columbia MakerSpace boasts tools that include a range of 3D printers, a laser cutter, and a number of CNC tools for digital fabrication.

Funding for promising ventures is offered through cFUND Ignition Grants and through the Technology and Global Technology tracks of the Columbia Entrepreneurship's \$250K Columbia Venture Competition. To provide monetary support for those postdoctoral researchers interested in commercializing research originating at Columbia Engineering, there is the Translational Fellows Program (TFP), which supports twenty percent of the salary of selected SEAS postdoctoral researchers and research scientists for one year.



Hear from Dean Boyce:

44

At Columbia Engineering, we believe that innovation is sparked when people are exposed to real problems and work together across disciplines to address challenges, so we have dedicated resources to developing a supportive ecosystem to promote creativity and entrepreneurship among our students and faculty. Whether it's providing students with ignition grants for seed funding, organizing design expos and venture competitions, or expanding our MakerSpace and workspace for entrepreneurial endeavors, we work closely with Columbia Entrepreneurship, Innovation, and Design, and the Columbia community to foster discovery and to translate innovation into tangible benefits for humanity.

I believe we have one of the most innovative and thriving entrepreneurship programs in higher education. So much so that we have been asked by some of our global partners to help them develop entrepreneurial programming.







CENTERS OF EXCELLENCE AROUND COLUMBIA

THE BROWN INSTITUTE FOR MEDIA INNOVATION







BROWN INSTITUTE FOR MEDIA INNOVATION

The Brown Institute for Media Innovation, a partnership between Columbia University's Journalism School and Stanford University's School of Engineering, examines the interplay between technology and storytelling. While doing so, The Brown Institute nurtures new forms of journalism through its fellowship, grant, and scholarship programs. It also stages public events and novel educational experiences to advance the practice of journalism and digital storytelling broadly.

With the support of the Institute, this year's grantees and fellows will go on to facilitate innovation around the world, with projects that build data sharing networks to connect journalists around the globe; develop in-camera video feedback tools to help news teams capture high-quality footage efficiently; and explore new ways to critique the data, code and algorithms that shape our world. This year, the institute has partnered with PBS FRONTLINE, ProPublica, and the NYC Media Lab to support its grants.

This year, the Brown Institute and the Center for Spatial Research, at the Graduate School of Architecture, Planning and Preservation, were awarded one of the first Collaboratory grants offered through the Provost's office. Through this collaboration, the Brown Institute is designing training modules in spatial data analysis and visualization, casting both as products in stories and, more critically, as emerging and little-explored tools for reporting.

Looking ahead, the institute is celebrating its fifth year, and has planned workshops and seminars to celebrate and continue to explore innovation in the field of journalism — from "Sneakercon," an examination of offline networking, to a design sprint that will create new forms of data visualization for broadcast. It is also working on the third edition of the Transparency Series, its major training program, which will include such topics as an introduction to VR, and a field trip to learn drone photography.



INNOVATION & ENTREPRENEURSHIP



Hear from Dean Janow:



SIPA occupies an increasingly interesting place at the intersection of digital technology, innovation, and public policy," said SIPA Dean Merit E. Janow. "By adding this invaluable support from the NASDAQ Educational Foundation to the extensive resources of Columbia University, we will enhance the School's ability to collaborate with scholars across the University and other experts to produce important new research, thought leadership, and curricular innovation on the study of entrepreneurship and the policy that supports it.

Dean Janow

COLUMBIA | SIPA
Center for Development Economics and Policy

Global Social Entrepreneurship at SIPA; Global Education Technology Program at SIPA's Center for Development Economics & Policy

SIPA has a robust offering of classes that support entrepreneurship. These classes include Creating a Social Enterprise (on the knowledge and skills required to launch a social enterprise), Programming for Entrepreneurs (on the fundamentals of programming, useful for writing web applications), and Generating Financial Support to Grow Social Enterprises (for students interested in securing financial support for public/private partnerships, traditional or innovative philanthropies, well established cultural or educational institutions.)



SIPA also hosts entrepreneurship-oriented events - "Turning Societal Challenges into Entrepreneurial Opportunities" and "Women Technopreneurs", to name a few - and provides funding to promising ventures through the track in sponsors at the Columbia Venture Competition.

In 2016, the NASDAQ Educational Foundation awarded SIPA a multi-year grant to support initiatives in entrepreneurship and public policy. The series of initiatives funded by the grant emphasize entrepreneurship and innovation stemming from both information and communications technology (ICT) and digital technology, along with their intersection with public policy globally.



CENTERS OF EXCELLENCE AROUND COLUMBIA

INNOVATION AT GSAPP

GSAPP

Columbia University Graduate School of Architecture, Planning and Preservation



Innovation at GSAPP

Columbia's Graduate School of Architecture, Planning and Preservation (GSAPP) generates the latest ideas in PropTech through its curriculum, partnerships with industry, and dedication to spaces that help ventures thrive.

Its Real Estate Development Program at GSAPP combines the fundamental skills of professional real estate with a holistic approach to urban development as a creative act. Cross-disciplinary electives draw on the program's access to the extraordinary offerings of GSAPP and Columbia at large, while required coursework immerses students in the three core tenets of urban real estate development: the financial, the physical, and the legal, arming students with the full range of professional and intellectual skills needed to tackle the complex demands of global urban real estate development.





22 Metaprop NYC Accelerator

The 22 week program at **Metaprop NYC Accelerator** focuses on driving business growth and accelerated market penetration, and offers accepted teams mentorship, training, and a minimum of \$50K in investment. Success in the pre-accelerator has helped teams enter the full Accelerator.

INNOVATION & ENTREPRENEURSHIP

Metaprop Pre-Accelerator at Columbia

The MetaProp Pre-Accelerator at Columbia University connects first-time, earliest-stage PropTech entrepreneurs (including students, recent graduates and scholars from the Columbia University ecosystem and beyond) to sources of seed capital, real estate and technology mentors, as well as to deep technology education. An intensive 8-week program, the Pre-Accelerator gives participants access to industry mentoring and early product feedback, as well as business and technology training from leaders at MetaProp NYC and Columbia University.

New Lab, on New Lab, on New Lab, on New Lab, or New La

New Lab, created to support New York City-based startups in a variety of advanced tech disciplines, provides scalable ventures - including six of Columbia-founded companies - with tools to work, collaborate, prototype, and grow their businesses. New Lab's prototyping labs feature advanced manufacturing tools, including selective laser sintering and fused deposition modeling for 3D printing, as well as standard workshop amenities to support development in robotics, A.I., energy, nanotechnology, and more. There are studios, meeting rooms, and breakout spaces for teams to handle the day-to-day grind of running a business, as well as areas meant to foster collaboration between teams.





CENTERS OF EXCELLENCE AROUND COLUMBIA



ENTREPRENEURSHIP@ATHENA

ENTREPRENEURSHIP ATHENA The Athena Center for Leadership Studies at Barnard College is helping to bridge the gender gap in entrepreneurship by offering much needed support and mentoring for young women interested in launching ventures.

To help demystify the startup world and equip its students with the tools to succeed in it, the Athena Center runs Leadership Labs, which presents on core skills necessary for any successful leader or entrepreneur. To foster an early support network, the Athena Center also provides support for high school innovators through Entrepreneurs-in-Training, an intensive 11-day summer residential boot camp for female high school students. Program participants are exposed to core entrepreneurial concepts, including lean start-up methodology and make site visits to local startups.

Budding entrepreneurs get a chance to gain some real-world experience at running a business through the Athena Digital Design Agency (ADDA). ADDA is a student-run web development academy and agency that is committed to helping small organizations build their brands on the web while empowering women in tech to become entrepreneurs.

INNOVATION AT THE MAILMAN SCHOOL OF PUBLIC HEALTH



DEPT OF HEALTH POLICY AND MANAGEMENT (HPM)

Mailman School of Public Health Well known for innovation,

HPM encourages public health students and alumni to use new technologies and new business models to attack systematic problems and design new solutions.

Looking forward, HPM aims to create an alumni support network in 2017-18 academic year, where alumni can tap into new and critical resources that will help sustain their work. HPM also hopes to inspire current students to explore the startup sector by offering coursework in the field and financial support to alumni entrepreneurs hiring current student interns. It also looks to leverage its vast network of healthcare leaders to provide important resources to alumni startups.

With a presence in the Columbia Startup Lab, HPM's faculty, alumni, and students is also drawing into a closer collaborative relations with others in the University-wide Columbia Entrepreneurship network.





INNOVATION & ENTREPRENEURSHIP

ODE COLUMBIA LAW ENTREPRENEURSHIP SOCIETY



COLUMBIA LAW SCHOOL

Columbia Law School connects legal experts and entrepreneurs, for example, by holding information sessions for Innovation and Entrepreneurship @ Columbia, a cross-University program that nurtures and leverages ideas and technologies within Columbia University.

The **Columbia Law Entrepreneurship Society** (CLES), a student club in the Law School, embraces a role in the innovation community, bringing its members together to discuss their ambitions, forge important friendships, pursue their business ideas, host the most interesting personalities, and learn from one another. The group hosts dinners and events where members can expand thei network, startup ideas, join with other founders to pursue the ideas, or solve legal and business obstacles that these startups may face; it also connect members with law firms who value their passion and drive and hosts events with business and entrepreneurship organizations.

Law students are also involved with the Columbia Law Studio, where they observe office hours provided to Columbia-founded startups by Perkins Coie.



3 EDLAB AT TEACHERS COLLEGE

Teachers College EdTech facilitates the development of innovative, effective, high-quality educational technology products and ensures that those brought to market serve its students, teachers, and institutions most effectively.

The **EdLab at Teachers College** (a research, design, and development unit at the College) has a long history of bringing developers, investors, academic researchers and users together to engage in conceptual development, demonstration projects, and new educational research to explore and document diverse possibilities for the future of education.

With its extensive partnerships with public schools, community colleges, and other organizations, Teachers College experts provide guidance to creative people developing new products in the wide variety of fields, including technology design, cognition, the learning sciences, learning analytics, educational games, software evaluation, teaching with technology, media literacy, digital teaching and learning, policy, and more. From ideation to real-world validation studies, TCEdTech helps make ideas a reality.



THE COLUMBIA ENTREPRENEURSHIP TEACHING TEAM

Dave Lerner, Director of Columbia Entrepreneurship

Dave joined Columbia Entrepreneurship after seven years running Columbia's Venture Lab where he spun out 70+ technology startups based on university research. He is also an Adjunct Professor of Entrepreneurship at Columbia Business School where he teaches the *Greenhouse Accelerator Program* and the *Launching Your Startup*. Dave is an entrepreneur (2 exits) and angel investor in 50+ companies. His personal blog explores the worlds of university entrepreneurship and venture investing. Dave serves as a mentor at TechStars and is on the Board of New York Tech Meetup.



Adam Royalty, Designer-in-Residence at Columbia Entrepreneurship Design Studio

Adam Royalty is the Designer-in-Residence at Columbia Entrepreneurship Design Studio and the founding director of the Columbia Entrepreneurship Design Studio. He comes to Columbia from the Stanford Hasso Plattner Institute of Design the d.school at Stanford University. Since his arrival in the fall of 2014, Adam has been co-teaching "Launching Your Startup" and "Green House" with Professor Dave Lerner at Columbia Business School. In

the 2015 Spring semester Adam is coteaching a course aimed at helping students

conceive, test, plan, pitch, and "Launch Social Ventures" SIPA Professor.

Nat Kelner, Associate Director of Columbia Entrepreneurship

Nat drove the successful launch of the Columbia Startup Lab and oversees the high-level functioning of the SoHo facility. Nat plays a key role on the teaching team of Steve Blank's Lean LaunchPad boot camp, Hacking for Defense, and the Greenhouse Accelerator at Columbia Business School. Nat sits on the board of Columbia Bartending Agency, a student-run enterprise with a fifty year legacy. He conducts entrepreneurship office hours and works on the successful launch of our next big thing. Prior to Columbia, Nat co-founded the Vermont Venture Foundry and was lead programmer at an angel-backed startup.





Joseph Heritage, Design Lead at Columbia Entrepreneurship Design Studio

Joseph Heritage '17SIPA is the Design Lead at Columbia Entrepreneurship. Joe has over eight years of research, project design, and project management experience. He has worked on agrarian-based social enterprises, value chain development, IDP post-conflict resettlement, entrepreneurship accelerator training, sustainable finance mapping, and market access projects. Prior to Columbia, he lived in Kenya for seven years where he co-founded and managed Freedom Global, a Kenyan social enterprise that employs and educates internally displaced persons working in staple, livestock, and commodity crop value chains.



Sarah Holloway, Senior Fellow for Social Entrepreneurship

Sarah Holloway is the Senior Fellow for Social Impact at Columbia Entrepreneurship, Innovation, and Design, and spearheads the group's work in experiential learning. She has worked in the public and nonprofit sector for 25 years. She is currently a full-time member of the SIPA faculty where she teaches Nonprofit Financial Management and Social Entrepreneurship. In addition to teaching, she runs the school's Management Specialization—a set of courses and activities that support knowledge and skill building in nonprofit, for-profit and social enterprise management. is a member of the Boards of the NYC Foundation for Computer Science Education (CSNYC), The Armory Foundation, Mission Restore, Five One Labs and Columbia Entrepreneurship. She is a former board member of The Institute of Play, LIFT Investments, the Ft. Tryon Park Trust, Friends of Public School 187 and the New York City Workforce Investment Board.

#coachingcolumbia





Inspired by the incredible example of mentorship and generosity provided by our great friend Coach Bill Campbell, Columbia Entrepreneurship, along with our many collaborators across Columbia, has formally launched the #CoachingColumbia movement. It's exactly Bill's type of generosity and the spirit of "paying it forward" that has given momentum to the entrepreneurship culture of Columbia University.

We're grateful to so many of our alumni who sustain Coach Campbell's tradition of giving great mentorship and advice to fledgling Columbia entrepreneurs. These alumni selflessly give their time and wisdom to the next generation across campus during the academic year, downtown at the Columbia Startup Lab, and across the world in the global Columbia alumni community. So, to recognize their contributions, we launched this #CoachingColumbia movement.

COLUMBIA-FOUNDED VENTURES & FUNDS

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