2018: a year of academic excellence and building the "Target University"

In 2018, for the second year in a row, Lyon was elected as France’s number one student city by L’Étudiant magazine. This is an honor that results from the collective territory dynamics supported by the Université de Lyon’s institutions.

In 2018, one of the Université de Lyon’s top priorities was to support the deep transformation of undergraduate programs in order to foster student’s success. Through the "CURSUS+" project, which won the "New University Programs" call for projects, the Université de Lyon is backing personalized and diversified educational programs.

Signing the site management agreement with the CNRS (Centre national de la recherche scientifique) for a shared scientific policy was also one of the highlights of 2018. With this agreement, the Université de Lyon, twelve institutions and the CNRS are committing to work hand in hand, in order to increase the international visibility and attractiveness of research at the site.

This was also the year the first IDEXLYON chair was launched ROAD4CAT partners with the IFPEN (IFP Energies nouvelles). This is part of the IDEXLYON projects involving industry.

Looking beyond our academic success, this year also held major events for the Université de Lyon, such as The Web Conference, the Students Welcome Desk, its participation in the Dance Biennial Parade and the Medicine and Humanities Summer School.

As it upheld its campus rehabilitation programs, implemented its energy and ecological transition and developed its actions to foster a more vibrant student experience, the Université de Lyon improved quality of life on campus in 2018.

As you read these pages, you will also discover the structural and institutional ambitions of the IDEXLYON project. For over a year now, five institutions are working to build a world-class intensive research university: the Université Claude Bernard Lyon 1, the Université Jean Moulin Lyon 3, the Université Jean Monnet, the École normale supérieure (ENS) de Lyon and the Institut national des sciences appliquées Lyon (INSA). This future grouping of five institutions results from discussions involving all of the institutions at the site.

2018 has also seen:
• The launch of the Disrupt’Campus project and the Digital Transformation University Diploma;
• The first HUBLO Festival, celebrating the entrepreneurial spirit among our students;
• The reestablishment of the Université de Lyon’s representative office in Shanghai;
• The Université de Lyon’s Sports Association winning first in the French University Sports Federation’s ranking;
• The birth of the Pop’Sciences Magazine and Forum.

The passionate and driven men and women who ran these projects have increased the renown of the university on the global stage. This is why, this year, we have chosen to feature interviews with the men and women who make the Université de Lyon on a daily basis, including students, future students, research lecturers and alumni...

Finally, I would like to warmly thank all of the member and associated institutions who have worked alongside the staff of the Université de Lyon to complete all of these projects. They altogether help make Lyon the number one student city in France.

Khaled Bouabdallah,
President of the Université de Lyon
The Université de Lyon in numbers

12 member institutions
25 associated institutions as of December 31, 2018

140,000 students, including 20,000 international students

17 doctoral schools

81 acres of rehabilitated ground through the Lyon Cité Campus project, between 2010 & 2020

2,300 participants in the 2018 The Web Conference

46,163 visitors to the 2018 Science Fair in Lyon and the Rhône departement

< 5,000 PhD students
1,000 theses defended each year

6,800 researchers & research lecturers

28 Associated International Laboratories & Mixed Research Units

6.9% of French scientific publications, 54% of which are international collaborative publications

= 81

€124.6M of collaborative research in 2017 (research not funded with equity capital)

€36.1M turnover in 2017 (member institutions)

154 scientific events organized as part of IDEXLYON in 2018

73 French University Institute** winners 2011-2018

24 CNRS silver medals 2001-2018

713 French University Institute** winners 2011-2018

21 Academy of Science Prizes 2011-2018

66 European Research Council grants 2009-2018

Lyon, ranked 1ST student city in 2018-2019 (L’Etudiant magazine ranking)

The LdL’s Sports Association, ranked 1ST in France at the French University Sports Federation Challenge® in 2018

The UdL’s Sports Association, ranked 1ST in France at the French University Sports Federation Challenge® in 2018

Life-long learning

81

€36.1M

> 5,000

1,000

28

6.9%

154

73

21

66

81

€124.6M

6,800

> 5,000

28

6.9%

154

73

21

66
Jean-François Pinton,
President of the École normale supérieure (ENS) de Lyon,
Director of IDEXLYON

IDEXLYON: looking forward to the 2020-2030 project

“The IDEXLYON project, which is driven by a powerful collective impetus, demonstrates the Université de Lyon’s strengths and aims to enhance the site’s dynamic of excellence: influential research, attractiveness of its educational programs and academic potential. The Lyon Saint-Étienne university site is continuing its progression towards becoming a world-class intensive research university.”

Jean-François Pinton, President of the École normale supérieure (ENS) de Lyon, Director of IDEXLYON
Meet Xin Yee Ng, a student in the IDELYON Acoustics Master’s program

Please introduce yourself in a few words.

I am from Malaysia, where I pursued a mechanical engineering program at the Tenaga Nasional University in Kuala Lumpur. In 2017, I came to Lyon for the International Acoustics Master’s program, one of the 19 IDELYON Master’s programs. Aside from the challenge of learning a new language and immersing myself in a completely different culture, I applied for this Master’s program because of its high educational quality. In fact, during my second semester, I was given the opportunity to do an internship in the Tribology and System Dynamics laboratory (CNRS, Ecole Centrale de Lyon, ENISE, ENTPE).

Why did you choose the IDELYON Acoustics Master’s program?

The Université de Lyon’s Acoustics Master’s program is taught over a two-year period, and is backed by the CELyA Acoustics Center (LabEx - Laboratoire d'excellence), which brings together the main acoustics research teams in Lyon. The program is coordinated by the École Centrale de Lyon and Polytech-Lyon (the Université Claude Bernard Lyon 1’s engineering school), in collaboration with the ENTPE and the INSA Lyon.

The Acoustics Master’s program provides training in multiple areas, such as aero-acoustics, vibro-acoustics, sound perception, ultrasound, which have many different applications for the environment, transportation and health.

The study program consists of theoretical learning, digital and experimental work, projects carried out in partner laboratories and research training, with over one semester spent doing an internship in a laboratory or business in France or abroad.

And finally, this Master’s program is very cosmopolitan because ten of its 22 students are international students. This is why classes are taught in both French and English.

What are your career goals?

This Master’s program offers the possibility to work in a research office or a company’s research and development department. The program is very well-suited to everyone’s career goals, as it offers a large selection of modules and tutoring.

I would like to become an acoustician, but I am not sure which field I will go into yet. This is why I am trying to find very diverse internships so I can narrow down my career goals. I am planning to travel to Australia to do a building acoustics internship in the field of environmental acoustics.

It is possible to be an acoustician in Malaysia, in particular in the field of civil engineering and in the oil and gas industry, but the field is still in its early stages of development in my country. This is why I would like to begin my career in France, perhaps even in Lyon which is at the cutting edge of acoustics, or in Australia.
Building a world-class university within the Lyon Saint-Étienne site

For several years now, the institutions of higher education and research at the Lyon Saint-Étienne site have been working together to define the structure of the site, which in turn yielded the Pôle universitaire de Lyon (PUL), the Pôle de recherche et d’enseignement supérieur (PRES) and now the Communauté d’universités et établissements (COMUE).

When the French government granted the IDEX (Initiative d’excellence) certification to the site in February 2017, during the launch and implementation of the various academic actions included in the project, the “institutional transformation” aspect was launched in order to build a world-class intensive research university, an inclusive and multidisciplinary university – the “Target University”.

Five institutions are working towards building this university: the Université Claude Bernard Lyon 1, the Université Jean Monnet, the Université Jean Moulin Lyon 3, the École normale supérieure (ENS) de Lyon and the Institut national des sciences appliquées (INSA) Lyon.

This new type of institution, which includes both universities and specialized schools (grandes écoles), aims to achieve world-class recognition by offering a rigorous multidisciplinary academic project, which is innovative in France and meets the expectations of all key players in the field:

- Ability to achieve a challenging academic strategy in terms of education and research, with strong links between these two areas; 
- Implementing a quality policy for an agile, efficient administrative office;
- Structuring undergraduate programs in order to foster students’ success and professional integration.

This new university will include eight education and research centers (including two at the ENS and INSA), which will retain their legal status, each one autonomous and with international visibility.

The trajectory for building this new institution, which will be founded in 2020, will match the pace of government agreements (2020-2025, then 2025-2030).

ROAD4CAT: signature of the first IDEXLYON chair

The agreement building the first IDEXLYON chair, “ROAD4CAT”, led by the Université de Lyon, was signed on June 26. It brings together IFPEN (IFP Énergies nouvelles) and the Chemistry laboratory of the ENS de Lyon (ENS de Lyon, CNRS and the Université Claude Bernard Lyon 1). This chair is committed to deploying partnerships within the IDEXLYON project, in particular in building industrial chairs.

In order to improve and develop catalysts, a better understanding of the mechanisms at atomic level is required, from the preparation stage to their operation.

ROAD4CAT employs two main research strategies:

- Simulating the genesis of the active phases of supported catalysts; 
- Computing the key properties of catalytic and photocatalytic reactions.

This research will also have environmental and social significance. In the context of energy transition, producing fuels from solar power is an alternative that will be explored by the chair.

The research program will be conducted simultaneously in the laboratories of the ENS de Lyon and IFPEN, with doctoral and post-doctoral students regularly exchanging back and forth between the two laboratories to create synergy between teams. The chair will be officially launched this summer, and it will recruit four doctoral students and five fellows.

And finally, ROAD4CAT will build Master’s courses covering the research conducted as part of the chair.

This first IDEXLYON chair aims to encourage the momentum of excellence within the site, in keeping with the project’s goals: increasing the renown of its research, the attractiveness of its training programs and the reputation of its academic potential.

Key figures

- 8,200 participants in the colloquiums and theme schools supported by the IDEXLYON project
- 55% citation rate for the UdL in publications from the UdL’s member institutions (a substantial increase following the IDEX certification in 2017)
- €20 million euros awarded to the institutions for calls for projects and scientific support programs

Signature of the ROAD4CAT chair agreement
Innovation within the Laboratories of Excellence

The Université de Lyon houses twelve LabEx (Laboratoires d'excellence) which are certified as Investments for the Future Programs (PIA - Programmes d'Investissements d'Avenir). Their main ambition is to build a high-level scientific framework for the entire site. LabEx play a key role in increasing the visibility and attractiveness of the Université de Lyon, by leading to the emergence of scientific projects with global visibility. 2018 was marked by many achievements, including those following:

- The ASLAN LabEx launched a MOOC for dyslexic students, which drew 6,500 participants from 86 countries.
- The CELyA LabEx organized an international summer school studying the propagation of acoustic waves through the atmosphere.
- The COMOD LabEx supported 48 research projects and 130 scientific events as part of these projects.
- The CORTEX LabEx strengthened its position in China by opening an experimentation platform at the Neuroscience Institute in Shanghai.
- Dr. Y Grinberg from the University of New York was recruited to study molecular immune regulation in cancer.
- Researchers from the ECOFECT LabEx developed a vaccine against the arboviruses which cause hemorrhagic fevers, such as Lassa fever. Their work led to signing a patent for a vaccine against the arenaviruses which cause hemorrhagic fevers, such as Lassa fever.
- The IMU LabEx won the Région Auvergne-Rhône-Alpes’ call for projects for the “Urban Worlds Augmented Third Space”.

A closer look at the Tech 4 Inclusion call for projects

The PULSALYS Technology Transfer Acceleration Company (SATT - Société d'accélération du transfert de technologie) and the Université de Lyon, through its IDEXYLON project, jointly launched the Tech 4 Inclusion call for projects. This call for projects supports laboratory inventions aiming to improve the quality of life of people with disabilities and marginalized people. It has brought the scientific community together to work on solutions for a societal challenge and launched a project built by all the local players (scientists, local authorities, companies and civil society).

Tech 4 Inclusion will help support projects in the maturation and pre-maturation stages, which will each be granted up to 30,000 euros in funding from the IDEXYLON.

Highlighting major calls for projects

The Université de Lyon’s aim for excellence involves supporting innovative and ambitious new research dynamics. This is why the IDEXYLON project launched three major calls for projects for the scientific community in 2018:

- The Scientific Breakthrough Program call for projects aims to increase the Lyon Saint-Étienne site’s attractiveness by creating new areas of research. The six winners of the 2018 call for projects were granted 1.2 million euros per project, over a three-year period. This funding will support innovative and ambitious research activities in order to respond to major scientific and socio-economic challenges.
- The call for IDEXYLON Fellowships projects aims to attract top-level scientists with significant international experience. The nine 2018 winners were granted up to 1.3 million euros per project, over a three-year period.
- The IMPULSION call for projects aims to fund research and education environments for researchers and research lecturers who recently joined the Lyon Saint-Étienne site. In 2018, the 24 selected applicants were granted an average of 56,000 euros over a two-year period.

In a few words...

1. Certification of 12 Master’s programs in January, for a total of 19 IDEXYLON Master’s programs.
2. Establishment of the ELAN ERC funding, scientific and logistical support program for future applicants to the site’s European Research Council’s call for projects (11 projects selected this year).
3. The Scientific Advisory Board met to review Fellowships applications and preselected applicants for the Scientific Breakthrough Program call for projects;
4. Launch of financial support for colloquiums and large-scale thematic international schools in the Lyon Saint-Étienne site.

...and attractiveness of the Université de Lyon, by leading to the entire site. LabEx play a key role in increasing the visibility and attractiveness of the Université de Lyon, by leading to the emergence of scientific projects with global visibility. 2018 was marked by many achievements, including those following:

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Scientific excellence to increase the attractiveness of the university

"Ranked the second scientific site in France, with 6,800 researchers and research lecturers, the Université de Lyon is conducting fundamental research and developing a research strategy to address major societal issues. This research has led to many international collaborative projects and is highly attractive to international researchers. Our ambition is shared with the local socio-economic sector, which rests upon a robust industry to create value and jobs. The quality of PhD programs and support for doctors entering employment are two of the Université de Lyon’s most important tasks.”

Frédéric Fleury,
President of the Université Claude Bernard Lyon 1,
Vice-president for the Université de Lyon’s Academic Strategy
Meet Guillaume Millet, professor at the Université Jean Monnet and winner of the Fellowships call for projects

Please introduce yourself in a few words.

I am an exercise physiologist and professor at the Université Jean Monnet, after directing a research group on neuromuscular fatigue at the University of Calgary in Canada for five years. I have authored over 180 scientific publications and five books about physiology and endurance sports training. I am leading the Physical Activity, Fatigue and Health chair (ActiFS – Activité physique, fatigue, santé) and I won the IDEXLYON Fellowships* call for projects.

Why did you apply for the Fellowships call for projects?

Thanks to the Fellowships program, I was able to build a research team about fatigue immediately upon my return from Calgary, as this is the number one symptom of many diseases in different populations (workers, athletes and the elderly). I am fortunate to be working in Saint-Étienne, in a very well-equipped environment to explore human movement.

The Fellowships program enables me to fund senior scientific staff (post-docs, research fellows). Additionally, this internationally renowned program gives me the opportunity to recruit international researchers and help make Lyon and Saint-Étienne a well-known research site on the global stage in the field of exercise physiology and health.

What research project will the IDEXLYON funding help you develop?

My research aims to gain a better understanding of the physiological, neurophysiological and biomechanical factors that determine fatigue, both in extreme exercise and in disease. My work on acute fatigue in athletes also provides models and a methodological framework to develop clinical research.

My integrative approach aims to gain a better understanding of patients’ chronic fatigue, in collaboration with people working in more fundamental research areas, clinicians in Lyon and Saint-Étienne and researchers in France and abroad. The IDEXLYON-funded project will primarily target patients with cancer or multiple sclerosis, patients who stayed in intensive care and seniors.

The ultimate aim of this research program is to provide customized treatment, especially in terms of the type of recommended physical exercise, to improve patients’ quality of life and decrease health spending.

* Learn more on page 15.
Visiting two Graduate Schools of Research...

The “Graduate Schools of Research” program spearheaded by the French National Agency for Research (ANR - Agence nationale de la recherche), as part of the third investments for the Future Program, aims to strengthen the global impact and attractiveness of each university’s research work and educational programs in one or more scientific fields. The Université de Lyon has built two Graduate Schools of Research projects as part of this program: H2O’Lyon and MANUTECH-SLEIGHT. These two Graduate Schools combine education and research and will receive approximately 15 million euros in funding for up to ten years.

• H2O’Lyon – Graduate School of Research for Water Science and Hydrosystems
Based on a multidisciplinary approach combining human and social sciences, physical and engineering sciences and life sciences, H2O’Lyon aims to develop skills, approaches and innovative tools to meet the challenges of holistic water management.

• MANUTECH-SLEIGHT – Light-Surface Engineering, Health & Society
The school was officially launched on October 2, and offers five Master’s programs and two PhD programs. It aspires to become a world-class Graduate School. It will take a multidisciplinary approach and incorporate research laboratories in Saint-Étienne and Lyon covering optics-photonics, materials science, mechanics, imaging, computer science and bio-engineering. It will also build industrial partnerships.

... and two Convergences Institutes

The Convergences Institutes call for projects was also launched by the ANR as part of the third PIA program. It aims to provide a framework for large-scale multidisciplinary scientific sites with strong visibility, to address major social and economic challenges and issues posed by the scientific community.

Two of the Université de Lyon’s projects were selected. They will each receive funding of 9 million euros for a period of up to ten years.

• The François Rabelais Institute for Multidisciplinary Cancer Research (PLASCAN)
Brought together researchers and oncologists in the area of cancer plasticity and its impact on personalized medicine. Focused on cancer biology research led by the Léon Bérard Center (CLB), the Oncology research center of Lyon (CRCL – Centre de recherche en cancérologie de Lyon) and the DEVweCAN LabEx, this institute aims to provide long-term solutions for patients by deploying multidisciplinary approaches. The humanities and social sciences are central to this project, as they provide a better understanding of the medical and socio-economic challenges involved.

• The École urbaine de Lyon (EUL)
is innovating by creating a new field of knowledge and study: the urban anthropocene. Through its project to conduct multidisciplinary experimental research, educate doctoral students and promote scientific knowledge in the economic, social and cultural spheres, it is deeply rooted in the global challenges of urbanization and profound paradigm shifts, changes in practice and urban careers. The École urbaine de Lyon intends to support the social, ecological and economic transition experienced by societies and countries around the world.

Find out more:
www.universite-lyon.fr/investments-for-the-future

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The Collegium de Lyon is an Institute for Advanced Study (IEA - Institut d’études avancées), founded in 2008 following a well-established model globally. It belongs to the French (RFIEA - Réseau des instituts d’études avancées) and European (NETIAS - Network of European institutes for Advanced Studies) networks, and invites fifteen to twenty international researchers and intellectuals each year. Those have been selected by an international scientific board for their excellent profile and original project. Each researcher is given excellent working and living conditions to foster scientific creativity for five or ten months. They are relieved of their usual obligations and able to focus on their research full-time, in partnership with one or more local laboratories.

The program is open to all approaches, themes and cultural areas and takes a multidisciplinary stance. Though the Collegium is traditionally rooted in humanities and social sciences, hard sciences are also included in its transversal approach. Ongoing projects are presented and discussed in weekly seminars, which are open to scientific partners, and in colloquia for a wider audience, which place more emphasis on doctoral training and socio-economic dimension.

Here are a few of the researchers we welcomed this year:

- **Akbar Abedi**, assistant professor of archaeology at the University of Tabriz (Iran), in partnership with the Archéorient laboratory (CNRS-Université Lumière Lyon 2)
- **Lia Epperson**, professor at the Faculty of Law of the American University of Washington DC (USA), in partnership with the Équipe de droit public (Université Jean Moulin Lyon 3).
- **Simone Martini**, professor of computer science at the University of Bologna (Italy), in partnership with the Parallel Computing laboratory (CNRS-ENS de Lyon) and the Institute for Philosophical Research of Lyon (Université Jean Moulin Lyon 3).
- **Lucia Shimbo**, professor at the Institute for Architecture and Urban Studies at the University of São Paulo (Brazil), in partnership with the Rives team at the Environment, City and Society laboratory (CNRS-ENTPE), chair of the Métropole de Lyon.
A doctorate opens up unique career prospects which allow young talents to express their potential for research, innovation and entrepreneurship. It trains experts with a diverse skill-set, who are highly sought after by recruiters in both public and private sectors, in France and abroad. Young doctors bring a creative impulse that is beneficial to society as a whole.

In 2018, the Université de Lyon and its member institutions built a Career Center to promote the professional value of the doctorate experience. It aims to help young doctors in their transformation process in order to continue fully expressing their talents in their careers after they complete their PhD, and to help them find a working environment that matches their ambitions.

To this end, the Université de Lyon provides them with a comprehensive support program, which combines in-person and remote, one-on-one and group support: cross-cutting training, personalized interviews, group workshops exploring job-seeking strategies, company challenges (the Innovation Academy, the Doctoriales, etc.), and special events (My Thesis in 180 Seconds, job fairs, etc.). These programs aim to build doctoral students’ skills to make them more employable and foster discussions with their peers and with companies.

Finally, the Université de Lyon is regularly asked to speak at doctoral events, such as at the beginning of the academic or scientific year at graduate schools.

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1. 154 scientific events were held this year as part of the IDÉLYON project, including 114 held by LabEx, 12 by the Academic Colleges, and 28 colloquia and thematic schools;
2. A framework agreement was signed between the Université de Lyon and the Inra (Institut national de recherche agronomique) to support their joint involvement in major strategic projects, particularly in the “Biology and Health” area;
3. Hélène Courtois, astrophysicist, professor and vice-president of the Université Claude Bernard Lyon 1, received the French Scientific Influence Award;
4. Operational launch of the research HUB, a collaborative web portal to connect the business and research worlds, in partnership with the Région Auvergne-Rhône-Alpes.

The Université de Lyon will add new programs in 2019: networking evening, themed roundtables, co-development groups, etc. A portal for doctors, future doctors and recruiters will soon be online on the Université de Lyon’s website.

In a few words...

1. Signature of the CNRS site agreement for a joint scientific policy

On June 26, the CNRS, the Université de Lyon and twelve institutions of higher education and research from the Lyon Saint-Étienne site signed an agreement defining their commitments and objectives for the next five years, as part of a joint research policy in the region.

This five-year agreement is perfectly consistent with the Université de Lyon’s IDÉLYON project, as it focuses on the three main fields of research conducted by the Université de Lyon: Science and Engineering, Biohealth and Society, Humanities and Urbanity.

The signatories of the agreement share a common goal: to increase the visibility and international influence of the site’s research by consolidating areas of excellence and create the ideal conditions for new themes to emerge at the intersection of several disciplines.

A closer look at the Innovation Academy

This new hands-on training program, which was launched in January by the Université de Lyon and PULSALYS, aims to help PhD students transform their innovative ideas into projects. 35 PhD students built teams to work on eleven innovative projects put forward by them, by PULSALYS or Beelys.

The success of the Innovation Academy proves once more that PhD students want to experiment with new educational methods to build increasingly innovative projects.
The educational programs of the future

“The Université de Lyon offers a remarkable array of educational programs covering all fields of knowledge, with degrees at every academic level, in order to address the challenge of student education and professional integration. Innovation is central to these educational programs, both in terms of content and educational methods. They build upon knowledge drawn from the cutting-edge research conducted at the site. The CURSUS+ program won the PIA call for projects for ‘New University Programs’, launching experimental tracks to transform undergraduate programs in order to better host them, provide better career guidance and support their success by offering more modular course levels.”

Frédéric Fleury,
President of the Université Claude Bernard Lyon 1, Vice-president for the Université de Lyon’s Academic Strategy

“In the area of digital technology, 2018 saw the two first graduating classes of ‘DisruptCampus’ students at the Université de Lyon, to create a ‘student-companies campus’ providing training for the digital transformation of organizations through hands-on projects. This program involves four months of training for initial and continuing education students, as well as a lecture series open to the general public. It is a good example of the Université de Lyon’s strong commitment to educational innovation.”

Jean-Baptiste Lesort,
Director of the ENITPE, Vice-president for the Université de Lyon’s Digital Technology & Information Systems
Meet Didier Chavanon, alumnus of the Digital Transformation training program

Please introduce yourself in a few words.

I am 55 years old and I have completed three different educational programs, covering electronics, marketing, the sale of industrial products and services, management and business administration. I have a passion for innovation and thirty years of experience launching innovative products and services, including twenty as an employee and ten as an entrepreneur and business creator. Throughout my career, I have worked in the areas of information technology (IT) and the environment. I have spent the past three years supporting startups and developing businesses through innovation and digital transformation.

Why did you decide to continue your education in the Digital Transformation training program?

There were several reasons I chose to continue my education with the Digital Transformation University Diploma:

• I no longer had the skills or knowledge required to assist some small and medium-size companies and startups in the IT field.
• I have a curious personality and I wanted to gain a better understanding of what “digital transformation” means and understand its impact more precisely. I also wanted to learn the requisite tools so I could help deploy them within organizations.
• I wanted to work with larger companies and offer them wider-scale digital transformation solutions than what I had been doing up until that point. I was deeply driven to help employees develop their skills so they could rise to the challenge of digital transformation.
• During my career, I have always found a way to achieve my goals, and this program was the most effective action I could take to meet the challenges I had set for myself when starting or completing a new activity, and to maintain my employability.

In practice, what did this innovative educational program at the Université de Lyon bring you?

The program perfectly met my expectations. It gave me the digital technology, methodological, marketing and strategy skills I needed to understand what digital transformation is and what impact it has on companies.

Additionally, the educational methods used in lectures, themed lectures and internships in companies provide a cross-cutting picture of digital transformation, in order to adopt even more effective practices. This program gave me the keys I needed to “learn to learn” easily through the digital tools available on the internet, tutorials, etc. I no longer dread using new software.

Once I had acquired the requisite skills to work for consulting firms and digital service companies, one of them contacted me directly. This company, which specializes in industrial performance, was looking for someone to run the new technologies advisory center to support its customers with Industry 4.0. After a number of discussions with the leaders of the company, I have been working at the company since November.
Training toward innovation through digitalization: Disrupt’Campus

The Université de Lyon launched its Disrupt’Campus program in 2018 as part of the call for projects of the same name led by Bpifrance and funded by the PIA. This program includes a University Diploma (DU - Diplôme d’université) and a lecture series covering digital transformation.

The University Diploma program addresses the challenges of digital transformation as well as the organizational, human, methodological and technological means to overcome them. It aims to train digital transformation leaders by developing their theoretical and managerial knowledge. This is why the DU targets the general and cross-cutting skills required for the digitalization of organizations.

In 2018, 28 students were enrolled in the two sessions of the Digital Transformation training program. For 17 weeks, students (degree, master, doctorate) as well as life-long learners took theoretical courses and worked on real-world company projects.

The other new initiative of the year, the Digital Transformation lecture series, hosts one lecture each month covering digital technologies and the organization transformations they generate: crowdworking, flex-offices, IoT, artificial intelligence, etc. Companies and researchers work together to address the topic and each lecture includes a long discussion period. In 2018, eleven free lectures organized in partnership with the Métropole de Lyon were open to the public.

A closer look at the two new honorary doctors

In November, during the Economics Days (JECD - Journées de l’économie) and the Jacques Cartier Meetings, the Université de Lyon awarded two honorary doctorates.

Pierre Marc Johnson, the 24th Premier of Quebec, initiated many projects addressing international trade, globalization and the environment. He is also a key player in university relations between the Region Auvergne-Rhône-Alpes and Quebec.

Professor Vernon Smith, who received the Nobel Prize for Economics in 2002, is considered to be one of the founding fathers of experimental economics.

This double recognition highlights the priority of the Lyon Saint-Étienne university site to continually strengthen the work it has been undertaking for over thirty years in the areas of education, research and innovation.

Developing the university programs of the future: CURSUS+

Through the CURSUS+ project, the Université de Lyon aims to completely transform its undergraduate programs by adapting to the diversity of the student body. It has received 14.5 million euros of funding, with an overall budget of 28 million euros. This budget will enable the Université de Lyon to offer more flexible, personalized academic programs, diverse career pathways and innovative educational approaches. The new content and organizational models that remove partitions separating undergraduate programs are at the core of the university programs of tomorrow.

Every university at the site will undergo this transformation process: Claude Bernard Lyon 1, Lumière Lyon 2, Jean Moulin Lyon 3 & Jean Monnet universities, as well as the ENS de Lyon and the Cnam (Conservatoire national des arts et métiers), with the cooperation of the Fondation pour l’Université de Lyon to manage relationships with socio-economic players.

“Transforming undergraduate programs is an important challenge. It is indeed one of our main objectives. We are expected to prioritize career guidance and students’ success, and with good reason. The CURSUS+ project and the financial support it provides will enable us to develop new programs and experiment. This program addresses a variety of big challenges: personalizing undergraduate programs, better supporting success while offering academic programs that meet a high standard, emphasizing professionalization and integration on the job market. We are working on launching these new programs at the beginning of the 2019 academic year.”

Khaled Bouabdallah, President of the Université de Lyon, in Le Progrès, September 19, 2018 issue
The life-long learning catalog presented in a single web portal

This project to create a catalog of the site’s institutions’ programs in life-long learning is part of the Université de Lyon’s strategy to personalize educational programs. The portal will be designed like a joint catalog to guarantee better visibility of the vocational training programs, sorting them by “career”, and to highlight the advantages of choosing the Université de Lyon: diplomas offered, expertise and cutting-edge tools. The portal is supported by the Région Auvergne-Rhône-Alpes and the Métropole de Lyon.

In order to be easily understood by the socio-economic world, the UdL’s portal classifies its educational programs by target skill. This promotes the programs offered by each institution, including short programs, programs that lead to certification or a diploma, in-person courses and distance learning courses. The portal also highlights the UdL’s high-level, personalized vocational training: the institutions share their expertise to build new programs that draw directly from cutting-edge research in order to address companies’ need for skills adapted to a changing market and complex emerging technologies.

This web portal will be launched in 2019 and is designed for life-long learning players, segmented into three major groups: purchasers, prescribers and funders. It will include a search engine, advanced search filters, suggestions based on the user’s goals, and, at the institution’s request, the possibility of creating an account.

The portal will be regularly updated with presentations of the institutions, testimonials (from companies and program participants), editorial content about the training programs, links to the institutions’ websites and news. This will guarantee that it is well-positioned in search results.

The Urban Logistics School begins its first academic year

The Université de Lyon supports companies and local authorities in addressing a changing market and urban spread, by developing a professional training program linked to research on urban logistics. It brings together the best of the skills from each of its institutions and laboratories which address the urban mobility of goods.

To do this, the Université de Lyon launched its first Urban Logistics Summer School. This new educational program addresses the strategic challenges of urban logistics, and was held in partnership with the CARA European Cluster for Mobility Solutions, the Fondation pour l’Université de Lyon and the Transport et Logistique de France (TLF) union.

Using innovative and thought-provoking educational methods, this three-day training course was met with enthusiasm by professionals from varied fields, including real estate, parking management and river management. It also drew young researchers from different fields, including economics, land-use planning, computer science management and mathematics. The Summer School helped its fifteen participants to further their thinking and develop strategies by offering a systemic vision of urban logistics.

It created an opportunity to discover the real-world urban logistic innovations in the Métropole de Lyon. In addition to the many interactions with goods mobility professionals and researchers, participants took part in the launch of the Urbalog serious game. This innovative educational tool stages the confrontation between the goals of each player of urban logistics in building a new neighborhood.

In a few words...

1. **Open Access on campus:** the fall 2018 Open Access Days included awareness-raising workshops for PhD students and research lecturers held on campus and spanning multiple weeks;
2. **Wider library opening hours** as part of the Open Libraries Plan +; 3 University Libraries (BU - Bibliothèques universitaires) are open every Sunday in Lyon.

Key figures

- 2 honorary doctorates delivered
- 28 students in the first two Digital Transformation graduating classes
- 12 institutions at the Lyon Saint-Étienne site will add their life-long learning programs to the web portal
- 28 million euro global budget for the CURSUS+ project
Vibrant campuses and student life

“The estate strategy led by the Université de Lyon and its member institutions has been deployed across all university sites. Through its large-scale projects focusing on restoration, economic development and improving student life, the Université de Lyon is striving to make its facilities sustainable and to continually develop them. In doing so, they remain in harmony with the attractiveness of the campus and the high quality of student life here, at what is the second largest university in France.”

Michèle Cottier, President of the Université Jean Monnet, Vice-president for the Université de Lyon’s Documentation, Publishing and Student Life Policy
Please introduce yourself in a few words.

I am 20 years old and I am a second-year student in the undergraduate STAPS program (Sciences et techniques des activités physiques et sportives) at the Université Claude Bernard Lyon 1. I joined a rugby club in my senior year of high school. I was scouted by the LOU Rugby club during a rugby sevens practice session at the university, and I am now beginning my second season in the prestigious club in Lyon. After being selected in international tournaments, I was given the opportunity of being one of twelve selected players to travel to Namibia in July for the University World Championship, where our team won the gold medal.

As a high-level athlete, what is the added benefit of being a member of the Université de Lyon’s Sports Association (AS UdL)?

The AS UdL aims to bring together the top athletes from all of the member institutions in the Lyon Saint-Étienne site and build the strongest teams to rival with other universities. With this ambitious project and collective enthusiasm, the AS UdL opens up opportunities for us to be selected and compete in major national and international tournaments.

I improved significantly by taking part in my first international experience and by joining the French university team. I was fortunate to share in this victory with top athletes, some of whom have signed contracts with the French Rugby Federation.

I would say that the AS UdL and the LOU Rugby club play complementary roles for me and both have played a part in building my skills. My next goal with the AS UdL is to compete in the 2019 Universiade in Naples, which is being organized by the International University Sports Federation.

What support and accommodation does the AS UdL provide you with during your studies?

During selections or tournaments, I am granted special accommodation from the AS UdL, primarily due to my title. I spend every Thursday afternoon practicing with the Elite Female Center.

Most of my professors are understanding if I have been injured or if I am tired after a competition. My high-level athlete status (SHN - Sportif de haut niveau) also allows me to lighten my schedule when necessary. This comes into play during exams. I can group together my continuous assessments, or even only attend finals.

The AS UdL is also a key partner in events I am invested in. Aside from the athletic aspect, it gives me good advice on how to organize projects and connects me with people I would not have found on my own. Sponsors and partners are always reassured when a student project is backed by a major institution such as the UdL (Université de Lyon).
This year saw great progress for the Lyon Cité Campus project on the LyonTech-la Doua campus, with eight buildings completed, seven of which have been renovated (Chevreul, Omega, Kastler, Brillouin, Lippman, Pasteur and Carnot), and one new building (Lederer).

The total surface area of the seven renovated buildings covers nearly ten acres, which have been improved to provide their users with better working conditions. The works included thermal rehabilitation, meeting accessibility standards and fire safety measures.

The new Edgar Lederer building for chemistry and biochemistry research is the home of the Common Center for Nuclear Magnetic Resonance (CCRMN - Centre commun de résonance magnétique nucléaire, Université Claude Bernard Lyon 1, Institut de chimie de Lyon & CPE Lyon) and the Institute for Chemistry and Molecular and Supramolecular Biochemistry (ICBMS - Institut de chimie et biochimie moléculaire et supramoléculaire). This building showcases the ambitions of the Lyon Cité Campus project in terms of development and student quality of life. As part of the eco-campus dynamics, it has also set itself to ambitious energy savings goals. For instance, it recovers heat from the CNRS/IN2P3 (Institut national de physique nucléaire et de physique des particules) computing center to heat the facilities.

Several works were completed for the ENS de Lyon:

- The 32,300 square foot M7 building was renovated and a new M2-3 extension of 2,200 square feet was built in 2018.
- The M7 building’s opening ceremony was held in April, celebrating the major rehabilitation works transforming the aging housing units for guest researchers visiting research laboratories.
- The Physics laboratory, the Astrophysics Research Center of Lyon (CRAL - Centre de recherche astrophysique de Lyon), the Blaise Pascal Center, the Rhône-Alpes Institute for Complex Systems (IXXI - Institut rhônalpin des systèmes complexes), the Parallel Computing laboratory (LIP - Laboratoire de l'informatique du parallélisme), and the Unit for Pure and Applied Mathematics (UMPA - Unité de mathématiques pur et appliquées), moved into this new building in December 2017.
- Building M6 has been renovated and restructured to house the entire Chemistry laboratory of the ENS de Lyon, which groups together 15 fully-equipped laboratories.
- And finally, the ground floors of buildings M2 and M3 were completed in September. The offices and laboratories were renovated and new housed part of the Physics laboratory and the Plant Reproduction and Development laboratory.
- Construction work for the new M8 research building began mid-2018, and is expected to be completed by 2020. It includes extension plans for the Crous university restaurant on the Monod site, which will be completed at the beginning of the 2020 fall semester.

On the Quais campus, work accelerated this year, with several building projects completed.

- The North Demeter, South Palace and MSH (Maison des sciences de l’Homme) North wings were completed this year, with 32,300, 53,800 and 177,600 square feet of rehabilitated buildings, respectively.
- The final section of the Athena building, the Gaia, Roubier and Laprade amphitheaters were also renovated and delivered this year. Works on Gaia Jaboulay, Clio North and Center Palace, including the university library of the Université Jean Moulin Lyon 3, are ongoing.
Energy and ecological transition as a major aim for the Université de Lyon

The urgency of climate change requires every public player to take an active role in the world’s energy and ecological transition. The Université de Lyon adopted an ambitious strategy on March 13, choosing to get organized to limit its environmental footprint. This strategy is being implemented throughout the Lyon and Saint-Étienne site, in partnership with the Crous de Lyon, and offers an action framework and trajectory for 2020, 2030 and 2050.

Energy renovation

The energy renovation of the university’s existing buildings is the driving force behind the site’s energy transition. This will account for over half of the reduction in consumption by 2050. The site’s strategy includes the ongoing renovation work being funded by the Campus Plan and the State-Region Plan Contract (CPER - Contrat de plan État-Région) for 2015-2020, which involves renovating one-third of university buildings nationally by 2021. The estimated budget to extend the renovation work to all buildings would be approximately 800 million euros for 180 acres.

At this stage, six member institutions have committed along with the UdL to the renovation of twenty buildings, covering approximately 25 acres of land and requiring an investment of 160 million euros.

Recruitment of energy economists

One-third of a university’s operational budgets are allocated to energy costs. The UdL assists and provides financial support to its institutions for the creation of a network of energy economists, which is key to guarantee an effective, sustainable approach to lowering energy spending.

Starting in January 2019, the member institutions will be able to consult with five new energy economists (in addition to the two current positions).

Soil unsealing as a strategic focus for the Lyon Saint-Étienne university site

At the end of 2016, the UdL committed to unsealing 3.5 hectares of soil on the LyonTech-la Doua campus. This project is eligible for financial assistance from the French Water Agency (Agence de l’eau), and the UdL has already improved water management for twenty buildings on campus.

Foundational meeting of the 2010–2020 University Development Scheme: first lessons and major challenges

The Métropole de Lyon and the Université de Lyon are committed to working together to build an excellence-based strategy for the university. This innovative strategy led to the creation of the 2010-2020 University Development Scheme (SDU - Schéma de développement universitaire), which helped the Université de Lyon make the city of Lyon one of the most attractive student cities.

A foundational meeting of the SDU was held to draw the first conclusions from this pioneering approach and to identify challenges to be addressed by the future 2020-2030 University Development Scheme.

Positive results for the SDU:

The players took a look back at the work completed as part of the first scheme, which made it easier to launch calls for projects and increased the legibility of the website. The biggest strength of the 2010-2020 SDU was building a dynamic of genuine partnership, which was embodied in student social housing. Welcoming students and maintaining economic focus on higher education and research (ESR - Enseignement supérieur et recherche) were identified as strengths to develop further.

University development prospects for Lyon by 2030

The institutional background has changed significantly since the first SDU was adopted. In addition to these changes, the IDEX certification awarded to the site in 2017 will lead to further institutional reconfigurations.

The overhaul of the SDU is a good opportunity to redefine the roles of the various players in light of their new skills. The next scheme must identify the next major scientific, demographic, economic and environmental challenges the Université de Lyon and the region will face together by 2030. This partnership will continue throughout 2019 in order to build a new University Development Scheme by 2020.

Key figures

- 7.5 acres of rehabilitated buildings at the Quais campus, out of a total 17 acres for the operation
- 2.8 hectares of unsealed soil at the LyonTech-la Doua campus
- 26 institutions represented at the SDU foundational meeting
The Students Welcome Desk, with outstretched arms

For three months, from September through November, the Students Welcome Desk (SWD) was open to greet national and international students within the Lyon Saint-Étienne site and offer many different services. It aims to help them integrate into the city, with administrative support, information about student life and relaxed events where students can meet housing and healthcare professionals.

In Lyon, the Université de Lyon, the Préfecture du Rhône, the Région Auvergne-Rhône-Alpes, the Métropole de Lyon, the Ville de Lyon, the Crous, ONL YL YON, Campus France and thirty other partners worked together to greet, provide information and support for over 14,000 students.

This year, the SWD offered several new services:

• A single location to file applications to renew residence permits, as the Préfecture du Rhône relocated all of its student offices to the SWD;

• The Primary Sickness Insurance Fund (CPAM – Caisse primaire d’assurance maladie) du Rhône was on-site to help newly-arrived international students register with the health insurance system. It worked alongside the OFII (Office français de l’intégration et de l’immigration), which is charge of approving their visas;

• A “student life” advisor position was also created for the first time in order to provide personalized, in-depth support to all students, in addition to the services offered by the partners of the program.

In Saint-Étienne, the Students Welcome Desk greeted 2,100 people between August and October at the city’s Youth Information Center. It provided students with complete support in their administrative procedures for the beginning of the academic year.

In its 2018-2019 rankings, L’Étudiant magazine placed Lyon as the top city for student quality of life, for the second year in a row. Because a high-quality environment to live and work in is a key factor for academic success, the Université de Lyon implements an ambitious strategy to improve student quality of life by providing equal access to housing, health care, sports and culture, etc.
UdL Sports Association (AS UdL): the top sports association in France

A little over a year ago, the Université de Lyon’s Sports Association (AS UdL) was created to bring together top athletes to compete in national and international sporting events.

The challenge was set: to become the number one sports association in France.

A challenge met, as the many titles and medals the AS UdL students won throughout the season led to the Université de Lyon being ranked first nationally by the FFSU (Fédération française de sport universitaire). A celebratory evening was held at the Université de Lyon to congratulate the champions. The evening was marked by a strong sense of human connection, which is one of the key values of sports. The FFSU will award the 2018 trophy for being the first-ranked sports association in France in 2019.

The AS UdL will continue to pursue its victories this year with the inclusion of two new institutions this season. 2019 will be an equally important year for the AS UdL, as it must work on the physical preparation to win the 2020 European Universities Games multisports competition in Belgrade. This sports association shows great promise, thanks to the collective enthusiasm of its athletes and trainers.

Find out more: asudl.universite-lyon.fr

The Student Initiative Fund, supporting a vibrant student life

The Student Initiative Fund (FIE - Fonds d’initiative étudiante) supports projects run by student organizations to create a vibrant life on campus. It is open to all students enrolled in institutions within the Lyon Saint-Étienne site.

2018 was marked by the creation of workshops for student organizations that want to apply for the theme FIE. These gatherings led by the Université de Lyon have helped student organizations network, interact with one another and build partnerships.

This year, 26 of the 39 projects submitted received a total of 64,000 euros in funding. Some of these very diverse projects have been funded by the FIE for several years. This is the case of the “Lyon International Model United Nations” (LyonMUN). Its sixth diplomatic event was held in May. This full-scale simulation brings together students from around the world for four days to practice international negotiations in many different languages, imitating the United Nations during meetings and lectures.

Find out more: www.universite-lyon.fr/student-engagement
A closer look at the “Taking care of your health is really not complicated!” campaign

The Université de Lyon, its higher education institutions and their partners are launching a new campaign for students within the Lyon Saint-Étienne site.

The “Taking care of your health is really not complicated!” campaign was launched at the beginning of the academic year, and aims to ensure students know the health system better as well as address the issue of students not accessing care. Through the tools and actions set up on campus throughout the year, it provides basic information as part of a preventative care campaign. The Crous is also partnering with the initiative by offering fifty free nutrition workshops in cafeterias and university restaurants on site.

Find out more on: www.universite-lyon.fr/students-health

Key figures

- **230** people on average welcomed each day by the SWD in Lyon
- **2,000** students at the MyLyon evening at the Musée des Confluences
- **> 3,000** members of the Ao UdL, 40% of whom are women
- **8,000** health kits handed to students as part of the new health campaign

In a few words...

1. Informing high-school juniors and seniors with disabilities about post-baccalauréat studies;
2. Creating a program for the beginning of the academic year listing all “student life” services in the region (jobs, health, sports, housing, culture, etc.);
3. The MyLyon evening was held at the Musée des Confluences, with the Crous de Lyon, in partnership with the Métropole de Lyon, ONLYLyon and Campus France, to close the SWD and welcome all students to the site.
Trailblazing projects for innovation and entrepreneurship

“With the aim of supporting innovation and initiatives from its campuses and institutions, the Université de Lyon has built structures and preliminary programs to support the next generation of student-entrepreneurs, with a complete program to develop their entrepreneurial spirit. In close collaboration with local, regional and national entrepreneurial ecosystems, the Université de Lyon is lending its know-how to support entrepreneurial culture and innovation.”

Éric Maurincommme, Director of the INSA Lyon, Vice-president for the Université de Lyon’s Innovation and Entrepreneurship Policy

“Beyond these actions fostering innovation and entrepreneurship, the Université de Lyon is getting involved with local socio-economic players.”

Frank Debouck, Director of the École Centrale de Lyon, Vice-president for the Université de Lyon’s Business Partnerships
Meet Cyprien Lefebvre, Co-founder of WeeeFund, a project incubated by Beelys

Please introduce yourself in a few words.

As part of my profound commitment to social and environmental causes, I took a sabbatical year during my mechanical engineering studies at the ENISE (École nationale d’ingénieurs de Saint-Étienne) to travel to Germany and give meaning to my career aspirations.

When I returned to school, I transferred to the École Centrale de Lyon to study entrepreneurship. I have now become the co-founder of WeeeFund, an organization that was incubated by Beelys (Booster l’esprit d’entreprendre sur Lyon Saint-Étienne).

What did you learn from the Université de Lyon’s Student-Entrepreneur Diploma during the launch of WeeeFund?

During Beelys’ D2E (Diplôme étudiant-entrepreneur) incubation program, I was given full, personalized support by two mentors, one from the academic world, and one from the professional world. The high-quality educational program and workshops are a major advantage of the program. When I joined Beelys, my first goal was to test WeeeFund’s business model by conducting a pilot project with a patron client. I met my goal thanks to Visiativ.

In addition to providing a community of entrepreneurs, Beelys offered to house my organization within its premises. This is a major benefit for a student-entrepreneur. I very much appreciated the advice I received about striking a balance between my personal life and my career.

The Beelys team was very available to help me turn my idea into concrete actions, move my project forward and implement it. After this experience, I decided to continue the adventure by taking part in the Accelerated Young Companies (JEA – Jeunes entreprises accélérées) program.

WeeeFund was officially launched this year. What are the ambitions of this innovative, responsible startup?

WeeeFund is an organization that helps companies commit to citizen action against the digital divide and electronic waste, by supporting digital education projects within socio-educational organizations and reusing their computers.

Its approach is to offer free support in the three “e”s in its name, WeeeFund, to schools: electronic materials, digital education, and computer maintenance (T.N.: in French, “entretien”). The project is innovative as it depends on companies’ global commitment to offering financial, human resources and material investments (with used computers).

In March, our first client, the Visiativ company, agreed to support our project. In November, the Ségéco François Gayte Foundation joined us.

Our ambition by the end of 2019 is to set up about ten similar computer rooms throughout the Région Auvergne-Rhône-Alpes. We would also like to expand the WeeeFund team by recruiting community service volunteers and interns, with the aim to offer a full-time position in the medium term.
Beelys, boosting the entrepreneurial

Beelys is the Université de Lyon’s Student Center for Innovation, Transfer and Entrepreneurship (PEPITE - Pôle étudiant pour l’innovation, le transfert et l’entrepreneuriat). Run by the Fondation pour l’Université de Lyon since 2014, this program involves 33 local institutions. It informs 25,000 students and raises awareness among 16,000 students each year about the entrepreneurial posture and methods.

To develop entrepreneurial skills or consolidate projects, Beelys supports students and recent graduates to bring them from an idea to founding a company. Beelys’ contests, educational programs and incubator involve 120 projects and lead to 60 company launches per year, in addition to the 40 projects from the JEA acceleration preparation program.

2018-2019 priorities:

• Strengthening the entrepreneurial spirit in high-level programs by raising awareness and providing support to doctoral students, alongside the Innovation Academy and PULSALYS’ “Young Doctors” program.

• Increasing international mobility to Quebec, the United States, China, within Europe, and in the French-speaking world, with the support of the Région Auvergne-Rhône-Alpes.

• Supporting young entrepreneurs who give up on their project, the “Bounce back” program. It includes personal reviews, and skills development so that these students can find positions within companies that are looking for graduates with an entrepreneurial spirit.

• Opening up to new audiences: specific support for continuing education students and job seekers.

• Supporting experience by using prototyping funds, in partnership with the Métropole de Lyon and using progressive tests for accelerated feedback.

• Expanding the HUBLO Festival, which celebrates entrepreneurial spirit in the Rhône-Alpes region and among student-entrepreneurs, companies and economic players. Meeting the entrepreneurs of tomorrow.

The first HUBLO Festival gathered 900 people, who took part in creativity and prototyping workshops, a press jury, discussions with special guests and an exhibition area for entrepreneurs.

PULSALYS: 5 years of performance and acceleration

After a year of growth in 2018, and a track record of helping to launch start-ups at a rate of over one a month since it was founded, PULSALYS celebrated five years of success and accelerating the transfer of technologies developed in the Université de Lyon laboratories to foster local economic growth.

Centering around the three strategic themes defined by IDEXLYON and the needs of the local economy, Science and Engineering, Biohealth and Society, Humanities and Urbanity, PULSALYS continues its growth in 2018, with promising results:

• 35 projects from the UdL laboratories funded up to 5 million euros;

• 40 intellectual property assets;

• 12 start-ups launched;

• 16 operating agreements signed.

This year, PULSALYS’ strategy focused on networking.

The project increased its interactions with researchers at the Université de Lyon in order to inspire and detect projects to promote. Following the successful Innovation Academy led with the UdL, two calls for projects partnering with IDEXLYON were launched, one addressing “Humanities and Urbanity” and the other “Tech 4 Inclusion”, both aiming to bring about projects that will be beneficial to society.

A closer look at the Innovation Pre-Facility’s open house

The Innovation Pre-Facility on the LyonTech-la Doua campus has celebrated its first anniversary. The open house for the occasion drew over one hundred visitors. Students, professors, companies and electronics and 3D printing enthusiasts enjoyed the opportunity to discover the fablab and creativity room within the innovative building.

In its first year, over 130 half-days of use of the creativity space were booked. The fablab, which is managed by the Astech student organization, already has over 85 members, who use it for project prototyping.

PULSALYS also increased its partnerships with competitiveness clusters and incubators (ACE7 - Accélérateur de création d’entreprises technologiques; 1Kubator, etc.), fostering the development of projects with industrial partners and entrepreneurs, in order to meet their needs to source relevant research results.

Summary of its five years of activity: 62 companies created, which in turn created 160 jobs, with 4.4 million euros in turnover and 52 million euros raised – PULSALYS work to create socio-economic value from the results of research is best demonstrated by these concrete effects on the local business environment.
A closer look at Lyon in the Move

The Université de Lyon partnered with the second “Lyon in the Move” event, which was held at Ninkasi Gerland and organized by the Progrès group and the Métropole de Lyon. This evening honored eight initiatives led by young talents, surrounding the social and solidarity economy, entrepreneurship and digital technology, sports and culture.

The UdL sponsored the entrepreneurship portion of the evening, which celebrated two start-ups: Tikaway (connected video camera glasses) and Biomédé. With the support of Beelys, Biomédé is developing plants to reduce ground pollution by natural copper phytoextraction.

The Fondation pour l’Université de Lyon

The Fondation pour l’Université de Lyon is a shared space for the economic world, the Université de Lyon and public players, who work together to support the socio-economic development of the Lyon-Saint-Étienne area. Chaired by Bernard Bigot, the Fondation pour l’Université de Lyon takes concrete action by:

• Incubating and carrying out projects in the fields of entrepreneurship, attractiveness, regional development and innovation;
• Supporting foundations in three main areas: research and innovation action, social and societal action, and higher education institution foundations;
• Pooling skills.

In February, Ronan Stephan, the scientific director of the Plastic Omnium group, was nominated as the successor of Alain Mérieux to preside the Strategic Orientation Committee (COS - Comité d’orientation stratégique) shared by the Université de Lyon and the Fondation pour l’Université de Lyon.

In June, the entire entrepreneurial center participated in the entrepreneur trade show with PULSALYS and the Innovation Factory.

In September, the first “Plastronics Project Manager” class of eleven students from INSA Lyon and CPE Lyon began their academic year. The Fondation pour l’Université de Lyon is helping institutions with engineering and fundraising.

In October, the first respite house was opened by the Fondation France Répit and the Fondation pour l’Université de Lyon.

The eleventh Economy Days (JÉCO - Journées de l’économie) were organized by the Fondation pour l’Université de Lyon in November. The 64 lectures given this year were attended by a total of 50,000 participants, including 23,000 on YouTube Live.

The two yearly Lyon StartUp programs provided four months of support to 200 applicants launching start-ups.

In a few words...

1. Organization of the national “48 Hours to Bring Ideas to Life®” challenge, which used to be hosted by the INSA Lyon on the LyonTech la Doua campus in Lyon and the Manufacture campus in Saint-Étienne;
2. Strengthening of the international dimension of Beelys through the WP4, “Entrepreneurial University and Regional Engagement” of the ARQUS Alliance (with Leipzig, Graz, Grenada, Vilnius, Padova) and the ISLYE program (with the Université Jean Moulin Lyon 3 and INSA Lyon) in Shanghai;
3. Founding of the Beelys Entrepreneur Community, which aims to develop business synergy and a spirit of mutual aid and community;
4. Launch of the ProPulse platform by PULSALYS, in order to recruit entrepreneurs for start-up projects.

Key figures

- 120 inventions identified by PULSALYS within the UdL’s laboratories in 2018
- 5,700 attendees at the creativity spaces of the Innovation Pre-Factory in Lyon in 2018
- 301 student-entrepreneurs in 2017-2018
- 18 foundations hosted by the Fondation pour l’Université de Lyon in 2018
International influence as a core goal

“International influence is one of the Université de Lyon’s major ambitions. Its desire to build new, lasting international relationships is attested by its partnerships with universities around the world, the scientific cooperative projects it has built, and the hundreds of foreign students and researchers it hosts. The success of the prestigious international The Web Conference 2018 is one of the highlights of this year, bringing Lyon, the region and the French web community to center stage.”

Jacques Comby,
President of the Université Jean Moulin Lyon 3,
Vice-president for the Université de Lyon's International Strategy
Meet Luisa Mesquita, a graduate from the distance learning dual-diploma program in São Paulo

Please introduce yourself in a few words.

I am 23 years old, a lawyer and criminal law Master’s student. I was born in Goiânia, which is located near Brasília (capital city of Brazil). When I was 17, I began my studies at the University of São Paulo’s Law Faculty.

In 2015, I was given the opportunity to join the French Law undergraduate distance learning program in São Paulo, which was initiated by the Triangular Higher Education International Partnerships projects (PITES - Partenariats internationaux triangulaires d'enseignement supérieur). This year, I completed my dual diploma in “bacharel em Direito brasileiro” and French Law. This double program enabled me to study both Brazilian and French Law. It was an opportunity for me to see the many similarities between the two systems while also gaining deeper knowledge into the crucial differences, with the influence of the European Union on the French system, and the influence of administrative law. Unlike in the European Union, in Brazil no external laws influence national legislation.

What are the specificities of the PITES educational program you completed?

The cooperation between the Lumière Lyon 2, Jean Moulin Lyon 3 and Jean Monnet universities and the University of São Paulo led to the creation of this undergraduate law distance learning program in Brazil. It receives support from the Université de Lyon’s representative office in São Paulo.

What advantages would you say this double diploma will bring to your future career?

I believe that the PITES program’s main contribution to my career is giving me a wider, more complete and universal vision of law. Each country has its own specificities in the way it teaches law and the different systems. These differences in my academic program opened my mind and allowed me to gain a new perspective on my country’s legal system.

In 2015, I conducted my first research project about the “Critical analysis of prison privatization as a solution for penitentiary issues.” Studying the French model of delegated penitentiary management as well as the US total privatization model was key to drawing conclusions on these issues, in light of the legal and social reality in Brazil.
Organization of the 2018 Web Conference

The Université de Lyon hosted the 27th prestigious international Web Conference in 2018 – the essential event for all players on the web, be they scientists, industry players or users. The conference was organized in partnership with the Région Auvergne-Rhône-Alpes and the Métropole de Lyon, in collaboration with the Digital League and the IW3C2 (International World Wide Web Conference Committee).

It began in 1994 under its previous name, “The International World Wide Conference”, and is the first annual international conference centered around the future of the World Wide Web. This is where major announcements are made, where the best-known scientific proposals are published, where you can learn about the latest technology, and where you can gain insight into the future of the web thanks to future-orientated keynote speeches, as well as into its users and the societal impacts of emerging technologies.

Due to the exceptional success of the 2012 conference, for the first time in its history, the conference was hosted in the same city for a second time. For five days, over 2,300 participants from 67 countries and five continents traveled to the Centre des Congrès de Lyon to discuss the theme: “Bridging Natural and Artificial Intelligence Worldwide”, setting a new record for attendance.

The session that drew the greatest crowd this year boasted prestigious guests: Sir Tim Berners-Lee and Vinton Cerf, the founding fathers of the Web and the Internet, Ruhi Sarikaya, director of applied science at Amazon-Alexa, Dame Wendy Hall, President of the IW3C2, Antoine Bordes, Director of Facebook AI Research and Kira Radinsky, eBay’s director of Data Science.

Building scientific cooperative projects

As part of its international policy, the Université de Lyon is building a scientific cooperative network with its partners through International Mixed Units (UMI - Unités mixtes internationales) and Associated International Laboratories (LIA - Laboratoires internationaux associés).

In 2018, three LIAs and three UMIs were awarded funding for their research: ElyTMaX in Japan with Tohoku University (for the study of material behavior in extreme conditions), LN2 in Canada with the University of Sherbrooke (nanotechnologies and nanosystems) and E2P2E in China with the East China Normal University (green chemistry).

The “ELyT” cooperative project with Tohoku University strengthened

This year, the Université de Lyon strengthened its partnership with the Japanese university by supporting the ElyTMaX UMI and launching the French branch of the research unit located in Sendai. The opening ceremony for the Lyon branch was held in March, when the President of Tohoku University visited Lyon.

The ElyTMaX UMI aims to develop scientific mobility by hosting Japanese research lecturers working on two research projects:

• Energy conversion associated with major distortion of elastomer materials and its heat transfer
• The study of the mechanical and tribological properties of bone biomodel materials.

The agreement for the founding of the ElyT Global LIA was also signed during this official visit. The ElyT Global LIA focuses on the applications and social challenges of engineering science. These two new agreements are the beginning of a long partnership.

A closer look at the reestablishment of the UdL’s representative office in Shanghai

In December, the Université de Lyon celebrated the reopening of its representative office in Shanghai, which will be hosted in the East China Normal University’s (ECNU) facilities.

It aims to work on setting up framework projects, in particular in the fields of health (oncology, neuroscience), entrepreneurship and innovation, green chemistry, and the anthropocene.
Supporting mobility programs

As part of the International Alliance, the Université de Lyon aims to build incoming and outgoing mobility programs for the entire university community. These international cooperation programs will lead to summer schools that will help build shared programs (remote training, double Master’s diplomas, thesis co-supervisions) and build its research space for its close partners.

Distance learning program in Brazil
Since 2014, the University of São Paulo (USP) and the Jean Moulin Lyon 3, Lumière Lyon 2 and Jean Monnet universities have been teaching French Law to USP students through PITES projects. This undergraduate program involves sending professors to São Paulo and leads to a double diploma which is highly sought after by recruiters.

Research internships in Lyon
The Université de Lyon has developed incoming mobility programs by creating research internships for students enrolled at the Universities of Tokyo and Ottawa.

Financial aid and mobility scholarships in the field of health
- Oncology: scholarships from the Région Auvergne-Rhône-Alpes enable international medical students from the Faculty of Medicine of the Jiao Tong University in Shanghai (Master’s level) to work in laboratories in Lyon through the CLARA (Cancéropôle Lyon Auvergne-Rhône-Alpes).
- Medicine: Lyon has been coordinating the Medical Francophone branch at the Jiao Tong University in Shanghai for 30 years with the support of the Région Auvergne-Rhône-Alpes, through the following initiatives: financial support for the mobility of professors from the Lyon Saint-Étienne site to Shanghai, and welcoming young Chinese doctors in internships (FFI - Faisant fonction d'internes) in the region.

Doctoral scholarships
The Université de Lyon signed a cooperation agreement with the China Scholarship Council in 2013. This has enabled twenty brilliant Chinese students to work on their doctorates at the Lyon site.

Finally, the Université de Lyon encourages incoming and outgoing mobility for doctoral students in order to obtain thesis co-supervisions, which are a key indicator of international scientific cooperation.

The Medicine and Humanities Summer School
After being hosted in Ottawa in 2017, the “Medicine and Humanities” summer school was held in Lyon and Saint-Étienne in July. A unique international ten-day training program in medical humanities during which the common thread was sensoriality. The thirty-four enrolled students, Canadian, French and Chinese future doctors, took part in this training course to enrich their know-how and know-how-to-be, while immersing themselves in the medical culture of Lyon and Saint-Étienne.

This summer school aims to help students better understand the challenges of medical practice and in the health field, and identify resources from different cultural and disciplinary fields in order to develop critical and relational skills.

The growing role of technology and patients’ increased access to medical information, relationships between caregivers and patients, ethics, and the meaning of sickness and death are a few of the themes covered by the “medical humanities” field.

The “Medicine and Humanities” summer school was created through the four-party agreement for education in the humanities during medical studies, which was signed by the Université de Lyon, the University of Ottawa, the Faculty of Medicine of the Jiao Tong University of Shanghai and the University of Traditional Chinese Medicine of Shanghai in 2016.

Through events of this type, the medium-term major goal of the International Alliance will be to build a framework for the three-country cooperation developing between France, Canada and China.

In a few words...

1. Renewal of framework agreements with the partners of the International Alliance: the China Scholarship Council, the universities of Tongji, Tohoku, São Paulo and visits from the rectors of the universities of Sherbrooke and Ottawa.
2. Development of an oncology agreement with the Jiao Tong University of Shanghai.
Sharing knowledge at the forefront

“The Université de Lyon contributes to promoting, sharing and leading the discourse about the production of scientific knowledge. In 2018, the founding of the Pop’Sciences Mag and the Pop’Sciences Forum, which aim to provide content for people who want to learn new things, has been a major contribution to the ambitious project of opening up the university and bringing it to the heart of our society. The national Arts and Culture in Higher Education Days and the Dance Biennial were also touchstones of this year’s rich offering of cultural events.”

Nathalie Dompnier, President of the Université Lumière Lyon 2, Vice-president for the Université de Lyon’s Culture, Science and Society, Spread of Knowledge, Life-long Education Scheme
Meet Gaëlle Simon, an anthropology student at Lyon 2, and Chancella Djimasde, from Frédéric Fajs high school in Villeurbanne, who took part in the gatherings for high-schoolers to meet doctoral students

Please introduce yourself in a few words.

Gaëlle Simon: When I was 15, I decided to stop my studies to become a hairdresser. After a two-year apprenticeship, I started becoming interested in other educational programs that required a baccalauréat. So at age 18, I began my sophomore year and grew a passion for literature and philosophy, which led me to go to university, where I discovered anthropology. I completed an undergraduate degree and a Master’s degree in this field. I am now in my third year of my doctorate program and my research focuses on music (rap and funk) and how it is used as a mode of resistance in specific neighborhoods: a favela in Rio de Janeiro in Brazil and a housing project in the Lyon urban area.

Chancella Djimasde: I am 18 and I am a senior student in literary track at the Frédéric Fajs high school in Villeurbanne. I am preparing for the entrance exam for Sciences Po Lyon. I am enrolled in the Equal Opportunity and Democratization Program (PECD - Programme égalité des chances et démocratisation) offered by this prestigious school, where I take history, English and contemporary issues classes every Wednesday afternoon. I would like to become a social law lawyer or build a humanitarian program in Africa or Asia.

Why did you decide to take part in the gathering for high school students to meet doctoral students organized by the Université de Lyon?

G.S.: I decided to attend the gathering because I believe it is essential to tell young people about the rather obscure world of research. Although the general public often forgets about it, it offers many different possibilities. I thought it was a very promising idea to be able to share our experiences as researchers with young people who may not otherwise have access to this field. Our personal journeys are not all the same, or linear, and sometimes we need to experiment with different paths before finding the right one. This is the richness of experience I wanted to highlight at this gathering.

It is also an opportunity to build bridges between the world of science and research and the general public, as a way to prove that science and research can be for everybody. This is an experience I would have liked to have when I was in high school. So I was happy to take part.

C.D.: Since I feel very drawn to higher education, my high school’s librarian suggested I attend this gathering to meet doctoral students. About twenty students from my high school also went out of curiosity to meet the world of research.

A doctorate is a university degree that can seem difficult to understand at first, especially since I am still hesitant to begin long studies.

So I felt the need to meet people who had studied for eight years after the baccalauréat in order to understand what motivated them. What is the status of a doctoral student? Are they paid? Are they able to work a job to fund their studies? Do they do field work or are they always working at a computer? These are the practical questions I wanted to ask at this gathering.

What did this gathering teach you?

G.S.: This experience was very rewarding. I was pleasantly surprised by the interest high-schoolers showed in my research. The discussion flowed well and was intense and constructive. Some high schoolers surprised me with unusual or even surprising questions, but they were all very relevant. I had a long conversation with Chancella Djimasde, who is still unsure of her educational path, but who seemed very interested in anthropology.

I was happy to take part in these gatherings, which had a friendly, pleasant atmosphere. It was also a chance to practice discussing my research with a different audience, to talk about my path, my experience, and also to listen to the concerns other people may have. It was a very positive experience I would be happy to repeat.

C.D.: The study of societies and civilizations, and philosophy are the disciplines I am especially interested in. I was lucky to talk to Gaëlle Simon, an anthropology PhD student, and also to a 60-year-old researcher, who is suffering from an illness, but who just completed her doctorate. They all told us about their daily lives and told us about their journey up until their doctorate. This helped me realize that everyone has a different journey. I also realized that if I have a lot of drive and passion, this diploma is not all that difficult to get. Additionally, the small size of the gathering was ideal for high-schoolers so we all felt free to ask questions.

I would say that these gatherings are complementary to the support provided by high schools for academic guidance for future students. This experience was a unique opportunity to immerse myself in the life of a researcher for an evening. I would love to do it again, perhaps as part of a citizen debate between high schoolers and doctoral students about health or justice.
The birth of the Pop'Sciences Magazine and Forum

The Université de Lyon’s Pop’Sciences web portal for the general public is a space to publicize events, resources and scientific, technical and industrial culture events dedicated to school audiences. In 2018, Pop’Sciences continued its development by creating:

* The Pop’Sciences Forum, which hosts gatherings between researchers, citizens, artists, organizations and companies to discuss major societal issues.

The first Pop’Sciences Forum brought 800 participants together between April 23 and May 10 to discuss artificial intelligence. The seven gatherings gave a high-level view of this issue and provided information and the opportunity to think together about the reality of AI in our societies, and the discoveries and innovations that are already available.

The second event, “Citizens, the city is ours!” was held from November 27 through December 5, and explored the transformations of cities and citizenship caused by the development of digital technologies. The forum was designed with a scientific committee and the participation of laboratories from the Université de Lyon’s member institutions, as well as local cultural partners such as the Halles du Faubourg, Arty-Farty and the Commune.

* Pop’Sciences Mag, the new digital media tool, publishes original popularized content twice a year. This online magazine was created and is published by the UdL as an ethno-fiction with stories in laboratories, interviews with specialists in the field, and long-form investigations of a social issue.

Two issues were released to the general public in 2018, covering the same themes as the Pop’Sciences Forum. The first issue is titled “What does artificial intelligence dream of?” and it was released in June, while the second “City Hacking: citizens are reinventing the city”, was released at the end of November. The second issue is devoted to new urban spaces and forms of expression: fablabs, inclusive cafeterias, ridesharing, little free libraries, squatting, etc.

Honoring arts and culture on our campuses

The national Arts and Culture in Higher Education Days (JACES - Journées des arts et de la culture dans l’enseignement supérieur) were launched by the French Ministry for Higher Education, Research and Innovation and the Ministry for Culture. They aim to promote the cultural and artistic achievements of higher education. The general public, as well as staff and students, are invited to discover the diversity, richness and quality of the cultural and artistic works created by students and professional artists.

For the first time this year, the JACES were coordinated by the Université de Lyon on the Lyon and Saint-Étienne sites. With over 33 artistic projects (shows, concerts, exhibitions, screenings, promenade performances, etc.), spotlighted on April 3, 4 and 5, we offered one of the fullest programs in France. Over the three days, the artistic events drew an audience of nearly 4,700 the various campuses.

The event also coincided with the National University Dance Events, in partnership with the Regional Committee for University Sport (Comité régional du sport universitaire) in Lyon and the Maison de la Danse. This event is the highlight of university dance and provides a unique opportunity to showcase the creative work of the academic year so students can discover eclectic masterclasses. An audience of nearly 800 people attended the final show, with the 180 student dancers from all over France in the prestigious Maison de la Danse.

In order to encourage our students’ artistic talents and foster a vibrant student life, the Université de Lyon also funded the IDEXLYON call for projects for “Campus Arts” for five cultural projects led by local students.
The Université de Lyon in the Lyon Dance Biennial Parade

On September 16, in front of an audience of 250,000, the Université de Lyon, the Claude Bernard Lyon 1, Lumière Lyon 2, Jean Moulin Lyon 3 universities and the Compagnie Fred Bendongué brought together students and staff from the Université de Lyon’s institutions of higher education and locals living in the third and seventh districts of Lyon to take part in the parade for the 2018 Dance Biennial.

By registering the “Joyous Cacophony” group for the Dance Biennial Parade, the universities in Lyon and 30 partner institutions and organizations set a new dynamic in motion for local artistic creation.

The “Joyous Cacophony” group is a celebration of diversity and of the cultural effervescence in the post WWI years.

2018 marked the commemoration of World War I, which is why the Lyon Dance Biennial chose the Peace theme for its twelfth parade. Jazz first came to France a century ago with the influence of African American GIs, who were dubbed the “Bronze Men” (T.N.: “hommes de bronze” in French).

Since then, funk and hip hop rhythms have joined its repertoire. It is a vibrant and electric style where music and dance transcend ethnic and social belonging, and transform this language of the street into a new resistance strategy in a joyous cacophony. For eight months, participants regularly flocked to the university and city gyms, community venues and city libraries in the third and seventh districts of Lyon.

There, they learned and practiced the choreography for 90 hours, created hundreds of costumes and all of the stage props.

A photography team followed the group through each stage of building the show, documenting the energy, hard work and friendly atmosphere with photos and videos. Thanks to their hard work, the “Joyous Cacophony” project will continue in 2019, with a traveling exhibition which will be displayed on each campus.

A closer look at the Research Ethics MOOC

Due to the large number of PhD students, the Université de Lyon’s Ethics Platform built a Research Ethics MOOC, which was launched on the national FUN-MOOC platform in September 2018. 3,000 people registered for the MOOC, with over 50% completing the program.

A more detailed version including case studies and a peer-grading system was offered as a Small Private Online Course (SPOC) for UdL PhD students, who were given a certificate of completion.

In a few words...

1. The Université de Lyon coordinated the Science Fair for the Rhône department (46,000 visitors) and the region (150,000 visitors);
2. It organized the Ethics Platform Seminar: “Conflicts of Interest and Value Conflicts: Systemic Challenges”;
3. A face-to-face PhD program aiming to educate PhD students about approaches to earmarked ethics, to support them with their thesis;
4. 8 gatherings for middle and high school students and PhD students were held this year, which were attended by a total of 355 students from grades 6-12 and 31 PhD students with diverse profiles.

Key figures

- 4,700 attendees at the 2018 Arts and Culture in Higher Education Days
- 1,265 readers of the first issue of the Pop’Sciences Magazine in 2018
- 270 participants in the “Joyous Cacophony” group at the 2018 Dance Biennial in Lyon
- 46,000 visitors, including 15,000 school children at the Science Fair in Lyon
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