Soulaymane Kachani

Professional Experience

COLUMBIA UNIVERSITY, New York NY, July 2003-Present

Senior Vice Provost, Columbia University, January 2022-Present.
Vice Provost for Teaching, Learning, and Innovation, Columbia University, April 2015-December 2021. *Vice Provost for Online Education*, July 2014-March 2015. *Special Assistant to the Provost for Online Education*, January 2014-June 2014.

Oversee the development of Columbia University's teaching, learning, and innovation strategies, supporting schools, colleges, and departments. Spearhead initiatives to enable the University to accelerate the expansion of its innovation in online and hybrid offerings.

Focus on propelling Columbia's excellence as a global university, working to enhance existing international academic partnerships and develop new ones, and to make its campuses ever more welcoming to students and scholars from around the world.

Assist with budget and administrative planning, and coordinate efforts to enable excellence in all that the University does for its student employees.

Chair, Leadership Council, Center for Teaching and Learning, 2015-Present. *Co-Chair*, Advisory Board, Center for Teaching and Learning, 2017-Present.

Led the planning and the establishment in 2015 of the Columbia Center for Teaching and Learning (CTL, https://ctl.columbia.edu). The CTL's 45 staff members partner with faculty, students, and colleagues across the University to support excellence and innovation in teaching and learning. In response to the current pandemic, the CTL transitioned from serving as an important resource for the teaching and learning community to functioning as an essential service of the University.

Chair, Provost Faculty Committee on Educational Innovation, 2018-Present. *Co-Chair,* Provost Faculty Advisory Committee on Online Learning, 2014-2018.

Administer the Provost's initiatives in teaching and learning and online education, including six teaching and learning RFPs: Innovative Course Design, Innovative Course Module Design (Start Small!), Large-Scale Teaching & Learning Grant, Massive Open Online Courses (MOOCs), Emerging Technology Grant, and Provost's Interdisciplinary Teaching Awards (ITA). 168 projects were awarded since 2014 to faculty across all Columbia's departments, schools and campuses.

Organize the Provost's Conversation on Online Learning (PCoOL) featuring public talks by leading academics and practitioners on the future of higher education, specifically around online education (https://online.columbia.edu/pcool).

Established in 2018 the Provost's Senior Faculty Teaching Scholars program which identifies (in partnership with the deans) and appoints outstanding teachers and well-respected researchers in their disciplines from across Columbia. The Scholars have the opportunity to create a vision and plan for supporting, changing, and innovating the culture of teaching and learning within their own departments and schools as well as across campus (https://ctl.columbia.edu/about/teaching-scholars).

Launched the "Dead Ideas in Teaching and Learning" podcast to encourage instructors, students, and leaders in higher education to reflect on what they believe about teaching and learning. In each episode, guests are invited to share their discoveries of "dead ideas"—ideas that are not true but that are often widely believed and embedded in the pedagogical choices we make. Conversations focus on dead ideas in topics such as grading, teaching with technology, student motivation, assessment, and neuromyths about learning, to name a few. Conversations also explore dead ideas exposed by the move to remote teaching due to the COVID-19 pandemic.

Chair, Faculty Committee on the Science Of LEarning Research (SOLER) Initiative, 2018-Present.

Launched the SOLER Initiative which aspires to become a vibrant hub for cross-disciplinary research at Columbia that will make invaluable contributions to advance the scholarship of teaching and learning by drawing faculty and researchers from various Columbia schools, departments, institutes and affiliates. The initiative provides faculty with an infrastructure to conduct academic research, postdoc support, assistance with IRB and data, and mentorship.

Founder and Head, ColumbiaX (https://columbiax.columbia.edu), 2014-Present.

> Steward and grow Columbia's online non-degree offerings across MOOC/SPOC and other emerging platforms, and partnerships.
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>> Oversee the University's efforts in MOOCs/Specializations/MicroMasters on the edX and Coursera platforms with over 3 million enrollments to-date (Columbia was the first University to partner with both edX and Coursera).
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>> Expanded online and hybrid executive education and non-degree education portfolio of Columbia (Business School and Engineering) on Small Private Online Courses (SPOC) platforms (e.g. Emeritus) to support the growing demand for short and executive education courses.
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> Support schools, colleges and departments in offering new and extending existing courses and programs to audiences around the world (https://online.columbia.edu). Evaluated full online program managers (OPMs) and fee-for-services firms as potential partners for Columbia's Schools (including Social Work, Business School, Engineering, Public Health, SIPA and Law) to expand online offerings. Interfacing with the leadership teams of the leading OPMs and fee-for-service firms.
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> Launched successful bootcamps in face-to-face (on campus, downtown area of Manhattan and Brooklyn) and online in part-time (6 months) and full-time (3 months) formats in the areas of Coding, Data Analytics, Cybersecurity, FinTech, Digital Marketing, UX/UI, and Tech Project Management.

Co-Chair, Columbia University Academic Technologies Leadership Group (ATLG), 2014-Present.

> Foster collaboration and partnerships among faculty and administrators overseeing academic and educational technologies across schools and central offices. Negotiated University-wide contracts for the university's current educational technology stack (including LMS (Canvas), video hosting solution (Panopto), and online conferencing (Zoom)).
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> Launched Digital Community at Columbia (DCC), a vibrant group of junior and mid-level staff involved in academic technologies and instructional design. The DCC is an open forum where members can share and discuss emerging trends in learning design, educational technologies, and best practices in teaching and learning. DCC has also served as an entry point and a funnel for ATLG in discussing emerging educational technology needs and setting the annual prioritization list for the University.

Member, Board of Governors, the Research Collections and Preservation Consortium (ReCAP), 2022-Present.

Member, Investment Advisory Committee, 2022-Present.

Professor of Industrial Engineering & Operations Research (IEOR), January 2013-Present.
Associate Professor of Industrial Engineering & Operations Research, January 2009-December 2012. *Assistant Professor* of Industrial Engineering & Operations Research, July 2003-December 2008. *Director of Master's Programs and Director of Executive Education*, IEOR Department, July 2008-June 2014.

> *Faculty member* of Columbia's Center for Pricing and Revenue Management, Columbia's Center for Financial Engineering, Columbia's Computational Optimization Research Center, and two Columbia Data Science Institute centers: Financial and Business Analytics Center and Foundations of Data Science Center.
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> Research areas: dynamic pricing, revenue management, machine learning, logistics, supply chain management, algorithmic trading, statistical arbitrage, traffic flow modeling, and transportation analysis. Teaching: quantitative corporate finance, industrial economics, operations consulting, logistics, pricing, and production and inventory planning. Graduated 7 PhD students. Served as a member of the PhD thesis committee of 30+ Columbia PhD graduate. Supervised 100+ undergraduate and 200+ Masters research projects/theses.
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> *Council member,* the Institute for Operations Research and the Management Sciences (INFORMS): elected by the presidents and chairs of the Societies and Sections of INFORMS to its 11-member legislative body, 2008-2010. *2007-2008 Board member,* INFORMS Revenue Management and Pricing Section. *2006-2007 Chair,* INFORMS Revenue Management and Pricing (RM&P) Section. *2005-2006 Vice-Chair,* INFORMS Revenue Management and Pricing Section.
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> *Editor,* Journal of Revenue and Pricing Management, 2003-2020. *Editor,* International Journal of Services Operations and Informatics, 2005-2020. *Senior Editor,* Production and Operations Management, 2009-2020. *Associate Editor,* Networks and Spatial Economics Journal, 2004-2020.

Senior Vice Dean, **The Fu Foundation School of Engineering & Applied Science, July 2018-February 2022.**
Senior Vice Dean for Academic Programs, July 2015-June 2018. *Vice Dean for Academic Programs*, July 2012-June 2015. *Vice Dean for Graduate, Professional and Executive Programs*, July 2011-June 2012.

> *Chair*, Education Working Group, Columbia Engineering, 2020-2022.
> *Chair*, Committee on Instruction, Columbia Engineering, 2012-2022.
> *Member,* Executive Committee of the Graduate School of Arts and Sciences, 2011-2022.

> Built and led successful international graduate admission recruiting efforts at leading universities in China, India, South Korea, Thailand, Argentina, Brazil, Chile, Colombia, Mexico, France, Germany, Greece, Italy, Spain, Switzerland, Turkey, and the United Kingdom. Leveraged recruiting trips to hold alumni events, cultivate donors and support fundraising efforts, build global/study-abroad programs, joint MS, BS/MS and executive programs with universities, corporations and (central and local) governments and encourage research collaboration. Enhanced domestic graduate recruiting activities with a particular emphasis on women and historically underrepresented minority groups. Achieved double digit growth in both MS and doctoral applications every year for 10+ years (cumulatively 500+% growth in MS applications). Developed and successfully launched over 50 dual MS programs between Columbia Engineering and leading international universities, particularly in East Asia, Europe and South America.

> Led development of three joint programs between Columbia Engineering and Columbia Business School (Management Science & Engineering (2011), Business Analytics (2017), and Dual MBA/Exec MS in Engineering and Applied Science (2021)), one dual MS program between Columbia Engineering and the Journalism School (Computer Science and Journalism (2012)), one joint MS program (and three certificates) between Columbia Engineering and the Earth Institute (Carbon Management, 2013), two joint MS program (and one certificate) between Columbia Engineering and the Graduate School of Arts & Sciences (Data Science (2014) and Quantum Science and Technology (2022)).

> Restructured in 2011 online arm of Columbia Engineering (Columbia Video Network (CVN)). Integrated CVN within the School, broadening its scope (e.g. non-degree, certificates and MS degrees, online and hybrid/low residency, lifelong learning including of Columbia alumni), professionalizing its staff and setting ambitious growth targets. Rolled out a new distributed production model (hardware and software). Developed, negotiated and launched online offerings (MOOCs, specializations, certificates, MicroMasters and executive education programs) in data science, artificial intelligence, business analytics, financial engineering, project finance and construction management. Launched skills-based bootcamps.

> Led significant enhancement of student life services and activities for students. Strengthened collaboration with the undergraduate and graduate engineering student councils. Led change in student services culture from a process-oriented operation to a service-oriented and student, faculty and administrator-friendly one. Created MS program-based career placement officers and established a graduate career placement center. Launched in 2016 the Professional Development Program (PDL: https://pdl.engineering.columbia.edu/) to enhance the education, initially of Columbia Engineering MS students (then later doctoral and undergraduate students), by providing enrichment and development opportunities to assist students obtain hard and soft skills, succeed in securing a job and grow in their a career, recognize effective leadership, learn to become effective team players, and cultivate ethical behavior and values (PDL is now a degree requirement for all our programs, and 99% of our students report that they would recommend PDL to a friend).

Chair, Columbia University Senate Budget Committee, 2008-2022 (attend the meetings of the Finance Committee of the Board of Trustees). *Elected member,* Columbia University Senate Executive Committee, 2004-2005, 2005-2007, 2007-2009, 2009-2011, 2011-2013, 2013-2015, 2015-2017, 2017-2019, and 2019-2021. *Co-Chair*, Senate Benefits Subcommittee, 2011-2022. *Member,* Senate-Trustees Nominations Subcommittee, 2004-2022. *Member,* Senate Rules Committee, 2013-Present. *Senator* (elected by the Columbia Engineering faculty)*,* 2004-2006, 2006-2008, 2008-2010, 2010-2012, 2012-2014, 2014-2016, 2016-2018, 2018-2020, and 2020-2022.

WORLD ECONOMIC FORUM (WEF)
Young Global Leader (YGL), March 2013-December 2019. Attend and participate in the Annual Davos Conference and the regional WEF conferences. Areas of focus within the WEF: Online education, lifelong learning, and international academic partnerships. *OGL*, January 2020-Present.
Co-Chair (with the President of EARTH University), Alliance on Partnership Models for Universities, Global Education & Skills Forum (Davos for Education), 2017-2020.

MOROCCAN AUTHORITY ON CAPITAL MARKETS (capital markets regulator, equivalent of SEC)
Board member, January 2016-Present. Co-President, Scientific Council, July 2018-Present.

HARLEM RENAISSANCE HIGH SCHOOL
Board member, November 2015-June 2018.

MCKINSEY & COMPANY
Part-time Expert Consultant in Pricing, Supply Chain Management, Operations, Asset Management and Corporate Finance, New York, Boston, San Francisco, Miami, Paris and Dubai, July 2003-June 2013. *Senior Associate* and *Associate,* Boston MA, September 2002-June 2003. *Associate,* London Kensington, United Kingdom, July 2002-September 2002. *Summer Associate*, Boston MA, June 2000-September 2000.

STRATEGIC CAPITAL ALLOCATION (SCA) GROUP, Boston MA, July 2003-December 2016
Strategy and Technology Advisor. SCA Group is an asset management firm with over $3 billion of assets under management from endowments, foundations, pension plans and family offices.

DEMAND OPTIMIZATION COUNCIL, New York NY, April 2007-June 2011
Chairman. The Demand Optimization Council (non-profit consortium of financial industry professionals, academics, and technology providers dedicated to advancing research, insights, and use of optimization science).

RESPONSE ANALYTICS, Phoenix AZ, October 2006- July 2009
Member of the Advisory Board.

VENDAVO, Palo Alto CA, August 2005-July 2007 (Leader in B2B pricing)
Chief Scientist.

Education

OXFORD UNIVERSITY, BLAVATNIK SCHOOL OF GOVERNMENT, Oxford, UK, 2019-2021
Global Public Leadership Program.

OXFORD UNIVERSITY, SAID BUSINESS SCHOOL, Oxford, UK, 2019
Transformational Leadership: Leadership at the Edge Program.

HARVARD UNIVERSITY, HARVARD KENNEDY SCHOOL, Cambridge MA, 2015
Global Leadership and Public Policy Program.

MCKINSEY & COMPANY, the Netherlands, 2002
Executive MBA Program (in partnership with Harvard Business School, Wharton and INSEAD).

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge MA
Ph.D. in **Operations Research**.
Master of Science in **Operations Research**.

ECOLE CENTRALE PARIS, France
Diplôme d'ingénieur (Major in Applied Mathematics).

Honors and Awards

Knighted by the King of Morocco on July 30, 2015, Morocco's National Day. Inducted to the class of Commander of the Order of Ouissam Alaouite (equivalent to France's "Légion d'Honneur"), for meritorious service and excellent civil conduct.

Inducted into the World Economic Forum's (WEF) Young Global Leaders Class of 2013 *for proven track record of professional accomplishments, breadth of expertise, commitment to society, shared purpose of creating a better world and desire to turn personal success into global significance through the scaling up of ideas that lead to impactful change*, March 2013.

Recipient of the 2012 Egleston Distinguished Service Award *for exceptional achievement, leadership and contributions to the excellence of Columbia University*, May 2012.

Recipient of the 2010 Janette and Armen Avanessians Diversity Award *for outstanding performance in enhancing diversity in departmental, school and university programs at Columbia, and for marked commitment to diversity, in particular, as a mentor and advisor of women*, Columbia Graduation Ceremonies, May 2010.

Approved patent on System and Methods for Business to Business Price Modeling using Price Change Optimization, 2010. Approved patent on Resource Allocation Techniques for Robust Optimization of a Set of Assets, 2010.

Recipient of the 2007 Kim Award for Faculty Involvement, *an award that recognizes every year one faculty member who goes above and beyond the call of duty to foster student success,* Columbia Graduation Ceremonies, May 2007.

Recipient of the 2004-2005 Columbia University Engineering School Alumni Association Distinguished Faculty Teaching Award *for dedication to teaching and devotion to mentoring students,* Columbia Graduation Ceremonies, May 2005.

Two approved patents on application of real options to asset management, 2004 and 2008.

Karl Taylor Compton Prize Winner. "*Given in memory of MIT's ninth president, this award is the highest award presented by MIT to students in recognition of achievements in citizenship and devotion to the welfare of MIT. It reflects outstanding contributions to the MIT community as a whole, sustained over a significant number of years*", May 2001.