Kerop D. Janoyan, Ph.D., P.E., F.ASCE *Short Curriculum Vitae*

Education

University of California, Los Angeles (UCLA), Civil Engineering
BS 1993; MS 1995; Engineer 1999; PhD 2001

Summary of Professional Experience & Registration

2024-present	**Associate Dean of Research and Graduate Studies**, College of Engineering, California State University, Long Beach
2021-2023	**Provost and Vice President for Academic Affairs**, University of La Verne
2021-2022	**Fellow**, Institute for Leadership and Governance in Higher Education, Association of Governing Boards of Universities and Colleges (AGB)
2016-2021	**Dean of the Graduate School**, Clarkson University
2020-2021	**Interim Dean of the Lewis School of Health Sciences**, Clarkson University
2013-2016	**Director of Distance Learning**, Office of the Provost, Clarkson University
2013-2021	**Co-Director, Blade Test Facility (BTF)**, Clarkson University, part of Center for the Evaluation of Clean Energy Technology (CECET), an Intertek company
2010-2014	**Executive Officer**, Department of Civil and Environmental Engineering, Clarkson University
2005-2013	**Director**, Laboratory for Intelligent Infrastructure and Transportation Technologies (LIITT)
2009	**By-Fellow**, Lent and Easter Terms, Churchill College, University of Cambridge
2002-2021	**Assistant, Associate and Professor of Civil Engineering**, Department of Civil and Environmental Engineering, Clarkson University
1993-2001	**Teaching Assistant, Associate & Fellow, and Graduate Student Researcher**, Department of Civil and Environmental Engineering, UCLA
1994-1995	**Staff Engineer**, Hart Consultant Group (now Weidlinger Associates, Inc.)
1993	**Staff Engineer**, Bechtel
1991-1992	**Student Engineer**, City of Los Angeles, Department of Water and Power

Registered Professional Engineer (Civil), California No. C60662

Fellow, American Society of Civil Engineers (ASCE)

Key Career Accomplishments

Innovative educational leader with record of success at increasing levels of responsibility at California State University, Long Beach, the University of La Verne, Clarkson University, and UCLA, including:

- Associate Dean of Research and Graduate Studies, College of Engineering (California State University, Long Beach). Provide strategic leadership for research, graduate programs, and research infrastructure serving more than 6,200 engineering students and a diverse faculty and staff. Partner with faculty and external stakeholders to expand interdisciplinary research, strengthen industry engagement, and secure critical resources. Lead initiatives that advance research productivity, faculty development, graduate enrollment, and external funding, while overseeing research facilities and equipment. In 2024-2025, external research funding reached $9.3 million, the highest in the college's history.
- Provost and Vice President for Academic Affairs (University of La Verne). Served as chief academic officer overseeing academic affairs, student affairs, online programs, nine regional campuses, the library, campus health and safety, athletics, housing, institutional research, and the registrar. Built and led a high-performing academic and student affairs leadership team, strengthening programs, partnerships, and pathways to better serve diverse and nontraditional student populations. Secured externally funded grants from private foundations, industry partners, and state and federal agencies. At a federally designated Hispanic-Serving Institution (HSI), led hundreds of faculty and staff serving nearly 6,000 traditional-age and adult learners. These efforts contributed to national recognition, including ranking as the top private university in California and sixth in the state for social mobility by *U.S. News & World Report*, and 33rd nationally in the *Wall Street Journal* 2024 Best U.S. Colleges rankings.

- Dean of the Graduate School (Clarkson University). Reporting to the President and a member of the President's Cabinet and Academic Leadership Cabinet, established the Graduate School structure across Clarkson University, after leading the successful merge and acquisition of the former Union Graduate College (UGC). Tasked with overseeing and growing all graduate programs including professional and research-based programs offered across three geographically dispersed campuses and online. Developed and fostered innovative graduate and professional programs and grew annual graduate enrollment and revenue across all campuses. Increased diversity and grew new international enrollments, female graduate student population and PhD student numbers.
- Interim Dean of the Lewis School of Health Sciences. Partnered with the President, Provost and the Vice President for Development to establish and name the Lewis School of Health Sciences for its growing portfolio of programs advancing careers, research and innovation in the healthcare sector. Led a successful national search for the Founding Dean.
- Inaugural Director of Distance Learning for the University. Reporting to the Provost, grew number of distance education degree programs, course offerings, students, and net revenue. Invested in campus-wide digital teaching and learning technologies and developed online, blended, and distance learning academic programs and courses.
- Executive Officer of the Civil & Environmental Engineering Department. Developed funding strategy to establish Construction Engineering Management program and raised funds for Inaugural Director of the program. Advocated for growth and diversity in students, faculty and staff.
- Director and Principal Investigator of high-profile, multidisciplinary research programs and groups garnering over $5 million that resulted in over 100 technical papers and reports. Founded several laboratories, in partnership with industry as well as state and federal agencies resulting in patented work. Served on committees to raise funds and strengthen corporate relations across campus.
- Professor of Civil and Environmental Engineering. Led cross-campus and interdisciplinary teams. Won teaching, research and service awards and championed diversity and inclusion. Supervised and advised undergraduate and graduate students across disciplines, including students who are now leaders at top companies and tenured faculty members at US research universities.
- International leadership experience including as Member of United States Department of State Partnership Opportunity Delegation to Armenia, Member of US-UAE Trade Mission Delegation, and By-Fellow of Churchill College at Cambridge University. Developed educational and research programs with international partners.

Selected Awards and Honors

- Fellow of the AGB (Association of Governing Boards of Universities and Colleges) Institute for Leadership & Governance in Higher Education, 2021-2022
- Recognition of Agility and Excellence Award, University of La Verne 2021
- By-Fellow, Churchill College, University of Cambridge, Elected for Lent and Easter Terms, 2009
- Trade Mission Delegation to United Arab Emirates, UAE Consulate General's Office and United States Department of State, 2019
- Partnership Opportunity Delegation to Armenia, United States Department of State, 2015
- Teaching Excellence, Clarkson University, Wallace H. Coulter School of Engineering, *Total of 14 Semesters*: Fall 2015, Spring 2014, Fall 2013, Spring 2013, Fall 2012, Spring 2012, Fall 2011, Fall 2010, Spring 2007, Fall 2006, Spring 2006, Fall 2005, Fall 2004, Fall 2002
- Phalanx, Clarkson University's highest honorary society, 2014
- The Commendable Leadership Award, Phalanx, Clarkson University, 2014
- Albert D. Merrill Award, Clarkson University, Civil & Environmental Engineering Department, 2013
- Semi-finalist in the Creative Core Emerging Business Competition, Timbre Inc., 2010 (with graduate students)
- Feature Article, *New York Times*, "Health Care for Bridges: A Search for Diagnostic Tools," 2007
- Outstanding PhD Award, UCLA Civil and Environmental Engineering Department, 2001
- Engineering Achievement Award for Student Welfare, UCLA School of Engineering & Applied Science, 2000
- Outstanding Teaching Assistant Award, UCLA Civil and Environmental Engineering Department, 1996
- UCLA Mortar Board, National Senior Honor Society, 1992
- Chi Epsilon Civil Engineering Honor Society, 1991

Academic Positions of Students Mentored (partial list)

- Dr. Matthew Whelan, Associate Professor of Civil and Environmental Engineering, University of North Carolina at Charlotte
- Dr. Michael Gangone, Associate Professor of Civil Engineering, Norwich University (formerly at University of Texas at Tyler

Funding Summary

External educational funding from private foundations, industry partners and federal agencies, totaling nearly $10 million. Among them, a $1 million gift by the Fletcher Jones Foundation to create an endowed professorship in artificial intelligence (AI) and grow its program in a field expected to transform global productivity; a $2.3 million gift to launch nursing programs; a five-year $5 million Department of Education HSI STEM grant; and participation in Grow with Google HSI Career Readiness Program, as one of 35 Hispanic Serving Institutions (HSIs) preparing our students for the workforce through digital skills training and career workshops.

External research grants and development fundraising totaling over $5 million in funding support from the National Science Foundation (NSF), Federal Highway Administration (FHWA), the New York State Department of Transportation (NYSDOT), the New York State Energy Research and Development Authority (NYSERDA), the Syracuse Center of Excellence, the NYSTAR Center of Advanced Material Processing, General Motors Powertrain, John Deere, General Electric, Lockheed Martin, Cooper Crouse-Hinds, Intertek, IBM, Hewlett Packard, AMD, AWS Truepower, FLIR Corporation and many other agencies and industrial partners. Over 50 research grants, development funds, equipment donations and travel grants.

Selected External Research Grants Awarded

1. *Center for the Evaluation of Clean Energy Technology (CeCeT) Blade Test Facility*; Intertek Center for Evaluation of Clean Energy Technology (CeCeT) and New York State Energy Research and Development Authority (NYSERDA), Principal Investigators: M. Marzocca, K.D. Janoyan, A. Achuthan, L. Minnetyan; 2012-2015; approx. $997,000
2. *Clean Energy and Smart Student Housing: Motivational Interventions for Improved Energy Efficiency in University Living*; New York State Energy Research and Development Authority (NYSERDA); Principal Investigators: S. Bird, L. Legault, S. Powers, K.D. Janoyan, D. Hou, P. Hopke; 2013-2015; approx. $243,329
3. G*reen Data Center Computing: A Demonstration Project and Feasibility Study, Economic Analysis, and Energy Policy*; New York State Energy Research and Development Authority (NYSERDA); P. Marzocca, A. Achuthan, K.D. Janoyan and J. Matthews; 2012-2014; approx. $350,000
4. *EAGER: Wireless Underground Sensor Network for In-Situ Monitoring of Soil Parameters, Soil-Structure Interaction Behavior, and Buried Utilities*; National Science Foundation (NSF); Principal Investigators: K.D. Janoyan and M.J. Whelan; 2011-2013; approx. $50,000
5. *Tool for Analysis of Early Age Transverse Cracking of Composite Bridge Decks*; New York State Department of Transportation (NYSDOT) and NYSTAR Center for Advanced Materials Processing; Principal Investigators: L. Minnetyan and K.D. Janoyan; 2008-2011; approx. $174,872
6. *Water Quality Measurements using a Novel Buoyancy Controlled Drifting Sensor Platform (BCDSP)*; Syracuse Center of Excellence Collaborative Activities for Research and Technology Innovation (CARTI) and Environmental Protection Agency (EPA); Principal Investigators: T. Ojo, K.D. Janoyan, M. Whelan and J. Bonner; 2009-2011; approx. $215,589
7. *Wireless Intelligent Sensor Network for Transportation Infrastructure – Phases I-III*; New York State Energy Research and Development Authority (NYSERDA), NYSTAR Center for Advanced Materials Processing and Clarkson University Wallace H. Coulter School of Engineering; Principal Investigators: R. Jha, K.D. Janoyan, E. Sazonov; 2004-2008; approx. $489,985

Patents

1. Holloway, D.C., Janoyan, K.D., and Whelan, M.J., assigned to Cooper Technologies Company, “Integrated condition or actuation monitoring and control components for switches, circuit breakers, panel boards, and other items for electrical control and circuit protection” United States Patent 8,570,179.

Selected Publications

Over 33 journal articles and book chapters; over 15 technical reports; over 55 refereed conference papers; over 100 technical presentations. (Graduate and Undergraduate research advisees identified in *Italics*.)

Book Chapter

1. Janoyan, K.D. and *Whelan, M.J.* (2010) “Intelligent Transportation Infrastructure Technologies for Condition Assessment and Structural Health Monitoring of Highway Bridges,” *Sustainable Infrastructure Systems: Simulation, Imaging, and Intelligent Engineering,* K. Gopalakrishnan and S. Peeta (editors), Springer-Verlag.

Articles in Journals and Monographs

1. *Whelan, M.J.*, *Gangone, M.V.*, Janoyan, K.D. (2025) “Data Set from Ambient Vibration Monitoring and Static Loading of a Steel Stringer Bridge Subject to Imposed Damage for Structural Health Monitoring and Damage Detection,” Journal of Bridge Engineering, 30 (7).
2. Legault, L., Bird, S., Powers, S.E.*, Sherman, A., Schay, A.,* Hou, D., & Janoyan, K. (2020). “Impact of a motivational intervention and interactive feedback on electricity and water consumption: A smart housing field experiment,” Environment and Behavior, 52 (6), 666-692.
3. *Nikdel, L.*, Janoyan, K.D., Bird, S., Powers, S. (2018). “Multiple Perspectives of the Value of Occupancy-based HVAC Control Systems,” Building and Environment, 129, pp. 15-25.
4. *Gangone, M.V.*, *Whelan, M.J.*, Janoyan, K.D. (2017). “Effect of Sensor System Noise and Load Positioning on the Precision of Load Testing and Rating of Highway Bridges: A Case Study,” Journal of Structural Integrity and Maintenance, 2, pp. 234-248.
5. *Ambegedara, A.*, Sun, J., Janoyan, K.D., Bollt, E. (2016) "Information Theoretical Noninvasive Damage Detection In Bridge Structures," CHAOS 26, 116312.
6. *Arsenault, T.*, Black, K., Janoyan, K., Marzocca, P. (2015) “Framework for a Spectral Element Wind Turbine Model Development for Load and Damage Estimation,” Structural Health Monitoring, 2015/9/2.
7. *Maatallah, O.*, Achuthan, A., Janoyan, K., Marzocca, P. (2015) “Recursive Wind Speed Forecasting Based on Hammerstein Auto-Regressive Model,” Applied Energy, 145, pp. 191-197.
8. Bird, S., Achuthan, A., *Maatallah, O.*, Hebner, R., Janoyan, K.D., Kwasinski, A., Marzocca, P., Matthews, J., Mayhew, D., Owen, J., Webber, M., Wenjin, W. (2014). “Distributed (Green) Data Centers: A New Concept for Energy, Computing, and Telecommunications Energy for Sustainable Development,” Energy for Sustainable Development, doi:10.1016/j.esd.2013.12.006.
9. *Ebrahimnejad, L.*, Janoyan, K.D., Farsani, H.Y., Valentine, D.T., Marzocca, P. (2014). “Efficient Predictions of Unsteady Viscous Flows Around Bluff Bodies by Aerodynamic Reduced Order Models,” Journal of Offshore Mechanics and Arctic Engineering, 136(1), pp. 1-10.
10. *Kunwar, A.*, Jha, R., *Whelan, M.J.*, Janoyan, K.D., (2013) “Damage Detection in an Experimental Bridge Model Using Hilbert-Huang Transform of Transient Vibrations,” Structural Control and Health Monitoring, 20(1), pp. 1-15.
11. *Gangone, M.V., Whelan, M.J.*, Janoyan, K.D., Minnetyan, L. (2012). “Experimental Characterization and Diagnostics of the Early-Age Behavior of a Semi-Integral Abutment FRP Deck Bridge,” Sensor Review, 32(4), pp. 296-309.
12. *Gangone, M.V.*, *Whelan, M.J.*, and Janoyan, K.D. (2011) “Deployment of a dense hybrid wireless sensing system for bridge assessment,” Structure and Infrastructure Engineering. 7(5), pp. 369-378.
13. *Whelan, M.J.*, *Gangone, M.V.*, Janoyan, K.D., Hoult, N., Middleton, C.R., and Soga, K. (2010) “Wireless Operational Modal Analysis of a Multi-Span Prestressed Concrete Bridge for Structural Identification,” Smart and Structures and Systems, 6(5), pp. 579-593.
14. *Whelan, M.J.*, *Gangone, M.V.*, and Janoyan, K.D. (2009) “Highway Bridge Assessment using an Adaptive Real-Time Wireless Sensor Network,” IEEE Sensors, 9(11), pp. 1405-1413.