

SUMMARY

New Appointments to Endowed Chairs, Professorships, or Fellowships (6)

June 6, 2023

Each college has formal procedures for the nomination and appointment to endowed chairs, professorships, and fellowships that include review by a college honorifics committee or promotion and tenure committee.

After review by the appropriate college committee the college dean makes recommendations for approval by the provost and the Board of Visitors. Such an appointment may continue through the active career of the professor at the university, unless it is relinquished in favor of some other honored or administrative appointment or unless the appointment has specific term limitations that may be renewable.

The following faculty members are recommended for endowed chairs, professorships, or fellowships at Virginia Tech.

College of Engineering (5)

Michael Bartlett	John R. Jones III Faculty Fellowship
Lingjia Liu	Bradley Senior Faculty Fellowship
Jordan Budhu	Steven O. Lane Jr. Faculty Fellowship
Binoy Ravindran	Bradley Senior Faculty Fellowship
Eli Vlasisavljevich	Kendall and Laura Hendrick Junior Faculty Fellowship

Pamplin College of Business (1)

Saonee Sarker	Richard E. Sorensen Dean's Chair
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ENDOWED FELLOWSHIP

John R. Jones III Faculty Fellow in Mechanical Engineering

In 2006, the John R. Jones III Faculty Fellow in Mechanical Engineering endowment was established to acknowledge and reward mid-career faculty who have shown exceptional merit in research, teaching, and/or service. Mr. Jones earned his Bachelor of Science degree in Mechanical Engineering from Virginia Tech in 1967. He is a retired executive of American Electric Power and remains an active consultant to the power industry. Mr. Jones has been a member of the Department of Mechanical Engineering Advisory Board since 1998.

In concurrence with recommendations of the Mechanical Engineering honorifics committee and department head Dr. Azim Eskandarian, Dean Julie Ross nominates Dr. Michael Bartlett to hold the John R. Jones III Faculty Fellowship in Mechanical Engineering.

Dr. Bartlett has excelled at scholarship, teaching, service, and outreach at Virginia Tech. He has graduated four Ph.D. students, has six Ph.D. students and three M.Eng. students currently, and has mentored three postdoctoral fellows (two currently). Through active problem solving and science communication with course video projects, he has also established himself as an effective and innovative teacher. He also co-organized a successful Macromolecules Innovation Institute Adhesion Science Short Course in 2022, with 35 professional participants, and is the lead organizer in 2023. Beyond the classroom, he has mentored 40 undergraduate students in his laboratory, resulting in publication of peer-reviewed journal articles where undergraduates have been co-authors 12 different times. He has engaged diverse groups, including the Center for the Enhancement of Engineering Diversity, the international World Science Festival in the Cool Jobs segment, and Women in Science and Engineering.

Dr. Bartlett has excelled in research and scholarship. He has received external funding from federal sponsors such as Defense Advanced Research Projects Agency, , National Science Foundation, Office of Naval Research, Army Research Laboratory, and NASA; industry sponsors such as 3M, Link Manufacturing, and Regents Innovation Fund; as well as from competitive internal funding sources such as the Institute for Critical Technology and Applied Science Junior Faculty Award and Pursuit Development Funds. This has resulted in \$8.3M total raised, \$4.5M raised as principal investigator, and \$3.6M total to Bartlett's lab.

He has published 37 journal papers since starting as an assistant professor (50 total), with eight being highlighted as cover articles and two being featured as Top 2018 Papers in their respective journals. He published 15 papers in 2021-2022 including articles in high-impact journals such as Advanced Materials, Science Robotics, Science Advances, the Soft Matter Emerging Investigator issue and Small Rising Star issue, Advanced Functional Materials, and a News and Views article in Nature Materials. As an emerging

leader in his field, he has been invited 25 times to present at national meetings such as Society of Engineering Science, American Chemical Society, Gordon Research Conferences, and Adhesion Society, and at departments throughout the country. He has been invited as a guest editor for a special issue on 'Liquid Metal' at Advanced Functional Materials and an issue on 'Liquid Composites' at Soft Matter; has organized new sessions on Materials for Soft Technology and Elasticity and Capillarity at the Adhesion Society; and has served as chair of the Soft Adhesives Division (2018-19).

Dr. Bartlett, by his innovative teaching methods, his service and outreach to the community, and through his publications in the fields of soft robotics and bio-inspired innovation, has made outstanding contributions to Virginia Tech, to the Commonwealth of Virginia and to the nation.

RECOMMENDATION:

That Dr. Michael Bartlett be appointed to the John R. Jones Faculty Fellowship in Mechanical Engineering, effective August 10, 2023 for a period of five years, with an annual operating budget for scholarship activities as provided by the endowment and the eminent scholar match, if available.

June 6, 2023

ENDOWED PROFESSORSHIP
Bradley Senior Faculty Fellowship

In concurrence with the recommendation of the honorifics committee of the Bradley Department of Electrical and Computer Engineering, Dean Julia Ross nominates Dr. Lingjia Liu to hold the position of Bradley Senior Faculty Fellow. Dr. Liu is eminently qualified because of his pioneering research accomplishments and innovations in the fields of wireless communications and networks.

Dr. Liu received a B.S. in Electronic Engineering from Shanghai Jiao Tong University in China. He then received a Ph.D. in Electrical and Computer Engineering from Texas A&M University in 2008. After completing his Ph.D., he spent more than three years with Samsung Research America (SRA) leading Samsung's research work in the 3GPP 4G LTE/LTE-Advanced standards. He joined the University of Kansas as an assistant professor in 2011 and was promoted to associate professor in 2016. He came to Virginia Tech as an associate professor in August 2017 and received promotion to professor in August 2021.

Dr. Liu has had a distinguished academic career. He has authored or co-authored three book chapters, over 100 journal/magazine articles, over 100 conference/workshop papers, and 23 granted U.S. patents. Among his journal articles, over 80 were published in prestigious journals in his field. His research received many recognitions in the field including eight best paper awards and his work has been well cited by his peers. Based on Google Scholar, he has 6,895 citations and his h -index is 45.

Dr. Liu is very active in the academic community. He has given over 40 invited talks, lectures, seminars, or keynotes around the world as a member of Institute of Electrical and Electronics Engineers (IEEE) Communication Society. As a member of the faculty at Virginia Tech, he received the Dean's Award for Excellence in Research from the College of Engineering in 2021.

Dr. Liu has received over 50 funded projects as principal investigator or co-principal investigator with 39 of them as the principal investigator. The funding amount of these projects exceeds \$125M. His sources of funding are very diverse, including U.S. Air Force Office of Scientific Research, Air Force Research Laboratory, Army Research Office, Defense Advanced Research Projects Agency, Intelligence Advanced Research Projects Activity, National Spectrum Consortium, National Science Foundation (NSF), and from various leading industry partners in the field of wireless communications including Qualcomm, Intel, and Samsung.

Dr. Liu has established a strong record of advising and mentoring graduate students. Over his 12-year career in academia, he has advised 10 M.S. thesis students to completion and 13 Ph.D. students. He is currently advising 14 Ph.D. students. This is an excellent and sustained record of degree production.

Dr. Liu has an impressive record of service to professional societies. He has served as chair of many international IEEE and Association for Computing Machinery (ACM) conferences, symposiums, and workshops including seven consecutive IEEE GLOBECOM Workshops on Emerging Technologies for 5G ('12-'18). He served on over 50 technical committees on various IEEE and ACM conferences and chaired many of them. He is a member of the editorial board for European Association for Signal Processing Journal on Wireless Communications and Networking and is a guest editor for the special issue on "3GPP Technologies: 5G-Advanced and Beyond" for IEEE Journal on Selected Areas in Communications. He has previously served as an editor for IEEE Transactions on Wireless Communications, an editor for IEEE Transactions on Communications, and an associate editor for IEEE Transactions on Neural Networks and Learning Systems.

Dr. Liu has been a tireless advocate for his profession by chairing or co-chairing various IEEE technical committees, serving on NSF proposal review panels, serving on the executive committee of the U.S. National Spectrum Consortium, and reviewing proposals for different organizations in various countries. He is currently serving as the director of Wireless@Virginia Tech, a center of over 30 faculty focusing on research and development in wireless communication and networking.

RECOMMENDATION:

That Dr. Lingjia Liu be appointed a Bradley Senior Faculty Fellow for a five-year term, effective August 10, 2023 with a salary supplement and operating budget as provided by the endowment and the eminent scholar match, if available.

June 6, 2023

ENDOWED FACULTY FELLOWSHIP
Steven O. Lane Junior Faculty Fellowship

The late Steven O. Lane was a 1978 graduate of Virginia Tech. He was considered a worldwide leader in spacecraft antenna design, spending his entire career with Boeing Satellite Systems. Among his accomplishments were 12 patents and several professional papers. Steven loved Virginia Tech and always attributed his success, in large part, to his education.

Dr. Julia Ross, Dean of the College of Engineering has nominated Dr. Jordan Budhu to the Steven O. Lane Junior Faculty Fellowship, concurring with the recommendations of Dr. Luke F. Lester, department head of the Bradley Department of Electrical and Computer Engineering, the Bradley Department of Electrical and Computer Engineering Honorifics Committee, and the College of Engineering Honorifics Committee.

Dr. Budhu earned his Ph.D. in Electrical Engineering from the University of California, Los Angeles (UCLA), in 2018. He received the M.S. degree in Electrical Engineering from California State University in 2010, graduating with distinction. From 2019 to 2022 he was a postdoctoral fellow at the University of Michigan, Ann Arbor. He joined the Bradley Department of Electrical and Computer Engineering at Virginia Tech as a tenure-track assistant professor in Fall 2022.

Dr. Budhu has earned a reputation of being a gifted researcher in the area of electromagnetics as applied to electromagnetic metamaterials, metasurfaces, and spacecraft antennas. Having consistently published high quality research results in top journals and conferences, Dr. Budhu's work has received both the best poster award at the Institute of Electrical and Electronics Engineers (IEEE) Coastal Los Angeles Section Technical Symposium meeting, and a best paper award at the United States National Committee (USNC)/International Union of Radio Science (URSI) National Radio Science Meeting. These awards are particularly impressive given their high selectivity and rigorous competitiveness. Dr. Budhu is also a dedicated teacher who has successfully integrated his research ideas and discoveries into his instructional classes. As evidence, Dr. Budhu has received an outstanding teaching award while at UCLA and has garnered outstanding teaching reviews from UCLA, University of Michigan, and Virginia Tech.

Steven O. Lane was a pioneer in spacecraft antenna design, spending his entire professional career with Boeing Satellite Systems. Dr. Budhu has similar industrial experience working in spacecraft antenna design while at NASA Jet Propulsion Laboratory (JPL) in 2011 and 2012. His Ph.D. thesis, funded by NASA JPL, is titled "Numerical Synthesis Algorithms and Antenna Designs for Next Generation Spaceborne Wind Scatterometer and CubeSat Antennas," aligning closing with the research interests of the Lane Junior Faculty Fellowship.

Dr. Budhu has shown outstanding research productivity. His research has resulted in 16 journal papers, 30 conference papers, one book chapter, two proposed and convened special sessions in the IEEE Antennas and Propagation Society conferences, and a

proposed and accepted special cluster in the IEEE Antennas and Wireless Propagation Letters, of which he currently serves as lead guest associate editor. He is anticipated to secure or help to secure a high level of sponsored funding to support his research as he has pending National Science Foundation grant applications, Defense Advanced Research Projects Agency Young Faculty Award applications, and Air Force Office of Scientific Research grant applications.

RECOMMENDATION:

That Dr. Jordan Budhu be appointed the Steven O. Lane Junior Faculty Fellow of Electrical and Computer Engineering, effective August 10, 2023, with a salary supplement as provided by the endowment and the eminent scholar match program, if available.

June 6, 2023

ENDOWED PROFESSORSHIP
Bradley Senior Faculty Fellowship

In concurrence with the recommendation of the honorifics committee of the Bradley Department of Electrical and Computer Engineering, Dean Julia Ross nominates Dr. Binoy Ravindran to hold the position of Bradley Senior Faculty Fellow. Dr. Ravindran is eminently qualified because of his pioneering research accomplishments and innovations in computer systems software, in the sub-disciplines of distributed systems, operating systems, and real-time systems.

Dr. Ravindran received a B.S. in Mechanical Engineering from The University of Kerala, India in 1991, and a M.S. in Computer Science from The New Jersey Institute of Technology in 1994. He then received a Ph.D. in Computer Science from The University of Texas at Arlington in 1998. He joined Virginia Tech's Bradley Department of Electrical and Computer Engineering as an assistant professor in 1998, received tenure and promotion to associate professor in 2004, and received promotion to professor in 2012. In 2009 and 2010, he was an Office of Naval Research (ONR) Faculty Fellow at the U.S. Naval Surface Warfare Center Dahlgren Division.

Dr. Ravindran has had a distinguished academic career. He has authored or co-authored 317 publications to date, including 51 journal publications, 200 conference papers, seven book chapters, and 59 workshops and other publications. These publications have received nine best paper awards or best paper award nominations. His journal articles were published in the most prestigious journals in his field including eight articles in Association for Computing Machinery (ACM) Transactions and 24 in Institute of Electrical and Electronics Engineers (IEEE) Transactions. According to Google Scholar, his work has been cited more than 5500 times. He has an h-index score of 38. Dr. Ravindran is very active in the academic community. He has given 57 invited talks around the world as a member of ACM and IEEE Computer Societies. He was named an ACM Distinguished Scientist in 2014 for contributions to the field of real-time computing. As a faculty at Virginia Tech, he has been recognized with the College of Engineering Dean's Award of Excellence in Research in 2020.

Dr. Ravindran has received 51 funded projects with 49 of them as the principal investigator. The funding amount of these projects exceeds \$34M. Dr. Ravindran's annual research expenditures have exceeded \$1.6M during the last four years and \$2M during the last two years. His sources of funding are very diverse, including Defense Advanced Research Projects Agency, ONR, Intelligence Advanced Research Projects Activity, Air Force Office of Scientific Research, Naval Sea Systems Command, National Science Foundation, and The MITRE Corporation.

Dr. Ravindran has established a strong record of advising and mentoring graduate students and postdoctoral scholars. Over his 25 years at Virginia Tech, he has advised nine research assistant professors, 18 postdoctoral scholars, and 24 Ph.D. and 58 M.S. students. This is an excellent and sustained record of degree production. Among his

former Ph.D. students and postdocs, 14 mentees are currently tenured or tenure-track faculty members at universities including Pennsylvania State University, Lehigh University, University of Edinburgh (UK), University of Manchester (UK), University of Twente (The Netherlands), Korea University, and Alexandria University (Egypt).

Dr. Ravindran has an impressive record of service to professional societies. He has served on 35 technical committees on various sub-disciplines of computer systems, including distributed systems, operating systems, and real-time systems. He is or was an editorial board member of ACM and IEEE journals including ACM Transactions on Embedded Computing Systems, IEEE Transactions on Computers, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Cloud Computing, IEEE Transactions on Sustainable Computing, and IEEE Design & Test.

RECOMMENDATION:

That Dr. Binoy Ravindran be appointed a Bradley Senior Faculty Fellow for a five-year term, effective August 10, 2023, with a salary supplement and operating budget as provided by the Bradley Endowment and the eminent scholar match, if available.

June 6, 2023

ENDOWED FELLOWSHIP
Kendall and Laura Hendrick Junior Faculty Fellowship

The Kendall and Laura Hendrick Junior Faculty Fellowship in the College of Engineering was established by the generous donation of Kendall and Laura Hendrick, with support from the Moraco Challenge. The creation of this fellowship enables Virginia Tech to promote our most talented faculty. Dean Ross has nominated Dr. Eli Vlasisavljevich as the Kendall and Laura Hendrick Junior Faculty Fellow, based on the recommendations of the department head of Biomedical Engineering and Mechanics (BEAM) and the BEAM Honorifics Committee.

Dr. Vlasisavljevich's research, scholarly, and educational platforms focus on developing histotripsy as a non-invasive, high precision, and image-guided cancer ablation method. Under Dr. Vlasisavljevich's leadership, his interdisciplinary team is tackling critical problems and making an international impact in clinical medicine, global health, and conservation. The recently published Phase I clinical trial, named "The Theresa Study" after Dr. Vlasisavljevich's mother who died of liver cancer, was the first study of histotripsy cancer ablation in humans. By studying the physics underlying the histotripsy process, the V-Lab is developing custom devices (transducers, amplifiers, robotics) for new applications including kidney, pancreatic, breast, soft tissue, bone, and brain cancers. Dr. Vlasisavljevich is also developing treatments for cancer in dogs and has a large project developing DNA extraction methods to combat the mass extinction crisis facing the plant and animal kingdoms.

Dr. Vlasisavljevich has authored or coauthored more than 70 papers in leading journals and 85 conference presentations, has multiple patents, has given more than ten invited talks at international universities, and has received \$16M in external funding. Dr. Vlasisavljevich has advised two Ph.D. and one M.S. students to completion. He currently mentors 16 Ph.D./M.S. students, 13 medical students, and 14 undergraduate students. He has a significant leadership role in the International Society of Therapeutic Ultrasound and is the Founding Director of the International Society of Ultrasound Student Board.

Dr. Vlasisavljevich through his scholarship in focused ultrasound and in the field of biomedical engineering has made outstanding contributions to Virginia Tech, to the Commonwealth of Virginia, and to the nation by his innovative research methods, his service and outreach to the community, and through his publications.

RECOMMENDATION:

That Dr. Eli Vlasisavljevich be appointed to the Kendall and Laura Hendrick Junior Faculty Fellowship in Engineering for a non-renewable period of five years, effective August 10, 2023 with an operating budget as provided by the endowment and the eminent scholar match, if available.

June 6, 2023

ENDOWED PROFESSORSHIP**Richard E. Sorensen Dean's Chair in the Pamplin College of Business**

The Richard E. Sorensen Dean's Chair in the Pamplin College of Business was established in 2012 with generous gifts from multiple friends of the Pamplin College of Business in honor of Richard E. Sorensen, Dean of the Pamplin College from 1982 to 2013. The Pamplin Faculty Honorifics and Awards Committee recommends that Dr. Saonee Sarker be appointed to the Richard E. Sorensen Dean's Chair. The recommendation is supported by the department honorifics committee, Dr. Quinton Nottingham, head of the Department of Business Information Technology, and the Pamplin Honorifics and Awards Committee. Interim Dean Roberta Russell also supports this recommendation.

Dr. Sarker received a Ph.D. in Business Administration from Washington State University in 2002. She joined the faculty of the Department of Information Systems at Washington State University as an assistant professor and was promoted to associate professor in 2008 and professor in 2012. In 2013 she joined the faculty of the McIntire School of Commerce at the University of Virginia as a professor. In 2019 she was named senior associate dean for academic affairs. Most recently she has been a professor at the School of Economics at Lund University in Sweden.

Dr. Sarker's research interests are in the areas of smart infrastructure and sustainability, health care information technology, technostress and wellbeing, and technology enabled collaboration. Dr. Sarker is an internationally recognized and highly impactful scholar.

Dr. Sarker has published 48 articles, 10 of which have been published in Pamplin elite journals. Her work has received more than 7,000 Google citations generating an *h*-index of 42. Dr. Sarker has generated an impressive and consistent record of research scholarship excellence that demonstrates high interdisciplinarity with a very strong commitment to purpose.

Dr. Sarker is actively involved in her academic field. She has served as senior editor for Management Information Systems Quarterly (MIS Quarterly) and currently serves as MIS Quarterly's director of diversity equity and inclusion. In short, Dr. Sarker is a highly accomplished scholar fully deserving of the Dean's Chair.

Dr. Sarker's scholarly and administrative accomplishments embody the ideals of work and dedication to learning and business education innovation that were demonstrated during the career of Richard E. Sorensen as Dean of the Pamplin College of Business.

RECOMMENDATION:

That Dr. Saonee Sarker be appointed to the Richard E. Sorensen Dean's Chair in the Pamplin College of Business, effective June 25, 2023.

June 6, 2023