

## **Janki Bhimani Biography**

Dr. Janki Bhimani is a full-time, nine-month, tenure-earning faculty member, currently holding the position of Assistant Professor in the Knight Foundation School of Computing and Information Sciences (KFSCIS) at Florida International University (FIU), an R1 public research university located in Miami, Florida. Prior to joining FIU in 2019, Dr. Bhimani served as an Instructor at Northeastern University. She also held the position of Performance Architect, interning for three consecutive years at Samsung Semiconductors in San Jose. She successfully earned her Ph.D. in 2019 from the Department of Electrical and Computer Engineering at Northeastern University in Boston, working under the supervision of Dr. Ningfang Mi.

Dr. Bhimani's primary research interests span System Design, Storage Systems, Memory Management, Computer Architecture, Electronic Design Automation (EDA), Cloud Computing, Big Data, Modeling and Simulation, Resource Management, Capacity Planning, Machine Learning (ML), and High-Performance Computing (HPC). Leveraging her profound knowledge and extensive experience in new emerging non-volatile memories and flash-based devices, she has made significant contributions to the data storage management community. Recognized for her outstanding contributions, Dr. Bhimani has received numerous awards and accolades, including NSF CAREER Award, FIU Top Scholar in the research publication category, KFSCIS Excellence in Applied Research, and Distinguished Reviewer and Best Paper Awards from flagship conferences. She has also been honored with Quality Matters (QM) certification for the courses she meticulously designed.

Dr. Janki Bhimani stands out as a distinguished researcher, having secured a remarkable \$6 million in research funding from prestigious federal and state sources like NSF and Cyber Florida as well as industries such as Samsung Semiconductors. As the Principal Investigator, she led projects totaling \$3 million. With a prolific research output, Dr. Bhimani has contributed significantly with 10 high impact journal articles, 35 peer-reviewed conference papers, 10 patents, and about 1000 citations. Her work has resulted in publications in high-impact journals such as IEEE Transactions on Cloud Computing (TCC), IEEE Transactions on Vehicular Technology (TVT), ACM Transactions on Storage (TOS), IEEE Transactions on Computers (TC), ACM Transactions on Modeling and Computer Simulation (TOMACS), IEEE Transactions on Big Data (TBDATA), and IEEE Transactions on Multi-Scale Computing Systems (TMSCS) and highly selective conferences and workshops such as DAC, HPCA, DATE, CLOUD, HPDC, and HotStorage. She has successfully graduated a Ph.D. student to become a tenure track Assistant Professor at Missouri State University and currently supervises a diverse group of Ph.D., M.S., and undergraduate students. In the past five years, she has advised eight Hispanic students, one Asian American student, and three women. Dr. Bhimani's collaborative spirit is evident in her partnerships with institutions like the University of Maryland, University of Chicago, Argonne National Lab, Syracuse University, and industry leaders such as Samsung Semiconductors.

As an educator, she excels in teaching, reflected in an impressive student feedback rating of 4.13/5, Quality Matters (QM) certification, and impact-driven teaching methodologies. She has taught various core and intensive graduate and undergraduate courses, including Storage Systems and Data Structures. She has secured Quality Matters (QM) certification for all her online courses and led curriculum updates to design and integrate a Data Structures course taught in multiple programming languages. She has implemented module-based content distribution with live feedback and class projects on the Chameleon cloud platform. Dr. Bhimani's commitment extends beyond research and teaching to service roles, where she has made substantial contributions to FIU's growth, serving as a member of the Faculty Hiring Committee, Awards Committee, CEC Faculty Council, Graduate Committee, Subject area coordinator, Graduate Program Committee, DEI Committee, and as Seminar Series Coordinator. Dr. Bhimani has taken on various leadership roles, including associate editor for ACM journals, general chair, program committee chair, track chair, publicity chair, and session chair for conferences such as CCGRID, ACM HotStorage, and HPDC. She has provided extensive service as a TPC member for top conferences such as USENIX FAST, IPDPS, and CLOUD. Her dedication also encompasses voluntary service at the Center for Women and Gender Studies, showcasing a holistic approach to academic and societal advancement. She keeps her skills updated through active participation in events at FIU, including the STRIDE workshop for hiring, tenure, and promotion, the Diversity Advocate workshop, and the Bystander Leadership workshop.