Ahmad studies and designs novel abstractions for large-scale data management. He is affiliated with the Data Management Systems Lab; Computer Systems Research Group and the Institute for Data-Intensive Engineering and Science. His research spans foundations and applications, with the K3 project realizing programming abstractions for declarative, democratized construction of distributed data systems, and the Molecular Dynamics Database pursuing data-intensive computing architectures and analytics for large biological datasets. Ahmad received his Ph.D. from Brown University in 2009.