CURRICULUM VITAE
ANUPAM JOSHI

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Education

Ph.D., Computer Science	1993	Purdue University
M.S., Computer Science	1991	Purdue University
B.Tech., Electrical Engineering	1989	Indian Institute of Technology, Delhi

Academic Positions

2020 – date	Affiliate Professor, Ericsson School of Aging.
2019 – date	Affiliate Professor, Diagnostic Radiology, University of Maryland
2018 – date	Affiliate Professor, Department of Medicine, University of Maryland
2011 – date	Oros Family Professor
2005 – date	University of Maryland, Baltimore County, Professor (tenured), Comp. Sc. Elec. Eng. On sabbatical in AY 14-15, Visiting Prof at IIT Delhi and IIIT-Delhi On partial leave AY 08-09, AY 09-10 at IBM IRL On sabbatical in AY 05-06, spent partly at IBM IRL, IIT-B
2001 – 2005	University of Maryland, Baltimore County, Assoc. Professor (tenured), Comp. Sc. Elec. Eng.
1998 – 2001	University of Maryland, Baltimore County, Asst. Professor, Comp. Sc. Elec. Eng.
2000 – 2003	UMIACS, Joint Appointment
1996 – 1998	University of Missouri, Asst. Professor, Comp. Eng. Comp. Sc.
1993 – 1996	Purdue University, Visiting Asst. Professor, Computer Sciences

Administrative Positions

2025 - date Vice Provost and Chief AI Officer

I currently serve as Vice Provost, and in this role, the entire Academic Affairs and Institutional Research Teams report to me through an Associate Provost and two Assistant Vice Provosts. In addition to these three senior leaders and their teams, I also have two administrative staff reporting to me. In addition to managing routine affairs (new program creation, program reviews, scheduling and classroom assignment, reports to state and federal agencies, data management and analysis, …), I also provide strategic advice to the Provost. I serve as his deputy and represent him in administrative areas of the university such as Facilities and Information Technology. As the Chief AI officer, I am responsible for the AI and Computing strategy of the campus, working with faculty, staff, and administrative leaders to explore how AI is transforming research, education, and the enterprise missions of the University.

2023 – 2025 Acting Dean, College of Engineering and Information Technology

The College of Engineering and Information Technology is the largest College at UMBC, with over 6500 students, almost a third of which are graduate students. In this role, I manage 12 direct reports, four departments (with six undergraduate and ten graduate programs), the Engineering and Computing Education Program (with three graduate programs and our NAE Grand Challenges program), multiple Research Centers, and the Center for Women in Technology (CWIT). It is also a College where faculty come from very different disciplinary perspectives – there are engineers, computer scientists, information scientists, human factors faculty, and even people with business backgrounds. So I have experience leading faculty whose differing perspectives are shaped by their disciplines towards a common goal. I stepped into this role during a time of leadership transition at UMBC and within the College. I started as we were in the final phases of our report submission to ABET for accreditation. I took over the process, and successfully led it to completion. All of our programs were reaccredited for the full six years. With support from our campus leadership, I was able to handle some key challenges that the college's unprecedented growth had caused. I recognized that many of our processes were no longer efficient at our current scale. One example was our advising model, which placed faculty in some departments in an untenable position of advising 30-40 students each in the three weeks before registration. I have worked with our Associate Dean of Academic Affairs and Assistant Dean for Advising to *reorganize our advising processes* to split the advising and mentoring roles, move advising to staff, and leverage faculty for mentoring. I supported this by authorizing the hiring of three more advising staff. I did this in a collaborative way with the department chairs that respected each department's priorities, needs, and traditions. This change is in line with the best practices from NISS around advising for student success. I have also worked across colleges with the other deans as a part of our new Cybersecurity initiative to hire faculty across colleges in Cybersecurity, and helped other colleges as they identified Cybersecurity candidates. Within the college, just last year I worked with the departments to *hire sixteen faculty*. Six of the sixteen hires were female, and nine were from minority groups, of which two were from groups historically underrepresented in our college. In addition to hiring more faculty and staff, I am a key voice in our campus discussions on how to *make AI a campus wide activity* beyond its current home in our College. I have been active in listening to our legislature and industry stakeholders to make sure we are responsive to workforce needs, and have worked internally to start the creation of new degree programs in AI. I created a new AI Center in the College, and am now working with the VPR and the other Deans to elevate it to a campus level center. I work closely with our office of Government Relations and Community Affairs to *connect with external stakeholders, especially in local and federal government, to establish our College and UMBC as key components of the state's effort to grow the workforce and industry in Computing and Engineering*. This helps us seek additional support for our educational and research activities. I also collaborate with our Office of Institutional Advancement to *raise resources for our college and UMBC from alums and corporate partners*. In this role, as well as my previous role as CSEE Chair, I have traveled with OIA and campus leaders to meet alums, especially in the west coast. I have been a key part of raising six figure gifts from alums, and attracting research funding from corporations. With our Associate Dean for Research, I expanded the *mentoring activities for new faculty, and created new strategies to grow research*. This included bringing together the research days held by each department together into a college-wide research day, and from there inviting faculty to apply for internal grants that would have at least two PIs from two different departments. We invested nearly 250K this year to support these grants, which will permit the initial work that will form the basis for external applications in the next year and beyond. I also approved creating staff positions like a grant writer and research coordinator in the college that can ease the proposal writing and research management burden on faculty. I work with the Assistant Dean of Finance on issues related to managing the College budget. With her help, I have *revamped our internal budget discussion processes to introduce greater transparency* and make sure that each unit has visibility into how the rest of the College is doing. This helps us collaboratively make investment

decisions with the College's leadership team. With my Chief of Staff and Operations Manager, I have focused on *facilities related challenges that arise from our growth*. Not only does this involve investing in new facilities for our OT Cyberrange and Makerspace which will provide hands-on opportunities for our students and enhance our research, but revamping existing spaces to make them more welcoming for students, and maximizing our space for faculty/staff offices and labs. I also work with our partner units on campus. For instance, with data from IRADS, I am working with College staff and students to analyze the major switching behavior of our students and identify bottlenecks to their progress to increase progression, retention and graduation rates.

2022 – 2023 American Council on Education Fellow at USM and UMB

This Fellowship exposed us to many elements of university operations that academics typically do not engage in, such budget, construction, or athletics. It also taught us leadership skills and conflict management. As a Fellow, I shadowed Dr. Jay Perman, Chancellor of the University System of Maryland (USM), and Dr. Bruce Jarrell, President of the University of Maryland, Baltimore (UMB). I attended cabinet meetings at UMB. In addition to academics related issues, I sat in the budget, planning, safety, and emergency management discussions. I understood how a decentralized, RCM budgeting based university works. At both UMB and USM, I attended meetings with external stakeholders such as the Board of Regents and Foundation boards, as well as Legislators and Executive Branch officials. In that process, I had the pleasure of getting to know campus leaders from other USM campuses, understand their needs and priorities, and in some cases identify where we can collaborate together. I not only learned, but provided input to many of these discussions with my expertise in computing. At UMB for instance, I was able to contribute to the then nascent collaboration between UMB and UMCP to create a new Institute for Health Computing. I was also able to identify how UMBC faculty and students, especially our programs at Shady Grove, could contribute to these efforts. I identified areas where UMBC's computational expertise could combine with the law school and the graduate school at UMB to create new programs that would respond to the state's workforce needs. This led in part to my being asked to serve on the search committee to identify the new Director of UMB's Center for Health and Homeland Security. Similarly at USM, I helped Chancellor Perman with Data Analytics to show that providing scholarships significantly improved the graduation rates for STEM students, especially those from Pell eligible families. This analysis is being used by the system to make the case for more scholarship funds to the legislature. In this process, I learned how to work well with legislators, regents, board members, and community groups, and how to get them engaged as partners in the University's mission and its execution. I also learned how to understand the key concerns of legislators and the executive, and identify university programs in research, education or community engagement that could help address them if appropriately supported.

2015 – 2023 Chair, CSEE Department

I led one of the largest departments on campus in terms of number of students and faculty. I oversaw a near doubling of the student headcount at the graduate level and a 50% growth at the undergraduate level. Our growth was also accompanied by a significant increase in the diversity of the student body including first generation students. I represented the department in a national program to increase the number of women in computing led by Dr. Maria Klawe, then the President of Harvey Mudd. I implemented some of its best practices (such as the Gold/Black section idea) in our CS program as well to increase retention/graduation rates. I supported faculty in their scholarship and oversaw a significant growth in extramural research. I worked with our partners in Institutional Advancement to help raise funds to support research of other faculty in the department (and beyond) from industry partners like Northrop, GE and Cisco. I worked with colleagues in other areas within and outside the College to lead the creation of a new MPS program in Data Science and a new Minor in Computing. The data science program was a large part of the growth in our graduate student population. I also played a key role in creating a new

MPS program in Software Engineering jointly with our Information Systems department. During my tenure as chair, our new faculty hires added significantly to the diversity of the department. Of the 34 hires, nearly 20% were from groups historically underrepresented in Computing, and just under 25% were women. I was often called upon to represent the computing activities at UMBC to external stakeholders such as industrial partners and state officials. I worked with the Office of Research and Creative Achievements, the Office of Institutional Advancement, and the Office of Information Technology in these efforts to raise resources for the campus. For example, an effort with OIA and DoIT led to the state announcing the creation of a Maryland Institute for Innovative Computing at UMBC. I also led the department through a successful ABET accreditation cycle within a year of taking over as chair. I am of course not listing a variety of routine administrative tasks related to budgeting, course scheduling, oversight, etc. that I coordinated with support from our staff and the Associate Chair.

2012 – date Director, UMBC Cybersecurity Institute

In this role I manage the cross-college Institute that brings together scholarship and research in cybersecurity from computer science, information systems, social sciences, humanities, public policy, and natural sciences. I represent UMBC in engagements with external stakeholders. For instance, I serve on the Maryland Cybersecurity Council chartered by the legislature, and in this role interact with business leaders, academics, and government officials. I worked across campuses early in my tenure as a part of a joint University System of Maryland/MITRE team to win the proposal for an FFRDC to support NIST. The IDIQ ceiling on this contract was $5B! This involved working closely with colleagues from USM and University of Maryland College Park. I was named the inaugural Technical co-director of this center as the USM representative. Based on joint work with our VPR, VP/CIO and VP OIA, the state announced an investment of $3M/year for the center a couple of years ago. I now work with the VPR and Deans to invest those funds in hiring faculty, seeding cross disciplinary research projects, and supporting students. I also run the Cyberscholars Program (a joint effort between this Institute and the Center for Women in Technology) that creates a diverse cohort of next generation leaders in Cybersecurity and Computing. Our cohort historically has had over 50% women and 40% students from groups historically underrepresented in this area. I conceived this program, and with the support of our Office of Institutional Advancement, raised over $4M from Northrop Grumman since 2013 to support the program. I have worked with our VPR to foster collaborations and joint research efforts with Universities in Japan, UK, India, Portugal, Romania and others.

Experience in Other than Higher Education:

Oct 2014 – Sep 2019 Co Technical Director, National Cybersecurity FFRDC, NCCOE/ NIST

Sep 2008 – Aug 2010 Visiting Scientist at IBM India Research Labs

Teaching

Like every other faculty, I have regularly taught required and elective courses in our program. My student evaluations, with one exception in my 30+ years, have always exceeded 4 on a 5-point scale. I believe teaching is a key component of a scholar's activities, and I have continued to regularly teach even after taking the administrative roles. I have also been responsible for several key curricular innovations. As a new faculty at UMBC, I worked with a colleague to significantly revamp how the required Operating Systems course was taught and made it much more hands-on. This feature of our program is appreciated by many of our industry stakeholders. I have created and taught new courses in emerging areas like Data Science, AI, Mobile Computing, and Security at both the Graduate and Undergraduate level. I also created a course titled Privacy and Security for a Mobile/Social World that I taught to our Honors College students. These included majors in areas as diverse as English, History, Economics and Biology. Teaching technical concepts around security and privacy to non-STEM majors was a challenging experience.

As Department Chair and now Dean, I have worked to use analytics to support teaching and program innovation. We are exploring predictive analytics to enhance student success (deciding what kind of support interventions are needed for which students, understanding how/when students change majors). I also led the planning and adjustment of our teaching efforts from in person to online, and now Hybrid, during the pandemic. I was aided in this by my prior innovation in remote learning. During a sabbatical, I created a class that was taught in a hybrid mode to students in India and US, despite the time zone and semester calendar differences. My research in education has been extramurally supported. I have recent grants from NSF to explore creating pathways in computing for non CS majors (X+CS) and introducing AI content in a Cybersecurity curriculum.

Scholarship

My research has cut across multiple areas in computer science, and has often been in collaboration with scholars from other disciplines. Within CS, I work at the intersection of AI and Systems to create new approaches. I did some of the earliest work in data management and security for mobile and ad-hoc networks using AI techniques, which was cited in my selection as a Fellow of IEEE. Over the last decade, I've been exploring this intersection to improve Cybersecurity. I have worked with scholars from areas like medicine, psychology, linguistics, gerontology, and public policy to explore computational approaches in those domains that have led to publications and extramural funding. This collaboration is recognized by my appointment as affiliate faculty in the School of Medicine at UM Baltimore and in UMBC's School of Aging. I am also an adjunct faculty at the School of IT in IIT Delhi and collaborate with researchers there. I also have active collaborations with colleagues at Kyushu and Keio Universities in Japan.

***Students**:* I have mentored or co-mentored 21 PhD students, and currently serve as a mentor of one. I have also mentored over 50 Thesis Masters students. I have served on the committee of dozens of students at both the MS and PhD level. I've also been the external examiner for PhD theses from Monash University (Australia), IIT-Delhi (India), IISc (India), IIIT-Delhi(India) and IIT-Guwahati (India) amongst others. Undergraduates are an active part of my group, and several of them have been co-authors in our papers. I have even supported high school students who are interested in exploring computing and mentored them as researchers in our group.

***Research Support**:* I have obtained extramural research support over $20M as PI or CoPI during my academic career. The funding has come from both government (NSF, DARPA, DoD, NIST, …) and industry (IBM, Microsoft, Northrop Grumman, Qualcomm, …) sources.

Patents: I have been granted nine patents for my research work.

***Publications**:*
I have published 89 journal and 222 refereed conference papers to date, mostly with my students and other collaborators. My papers have led to over 34500 citations and an h-index of **98** as measured by Google Scholar. I am in the top 2% list of scientists worldwide based on citations maintained by Ioannidis et al. at Stanford. Conference papers in the Computer Science community are heavily refereed before being presented in meetings, and are given similar weights as journal publications. I've encouraged my student co-authors to present wherever possible. A current list is found later in this CV, and can also be found on my Google Scholar page (***https://scholar.google.com/citations?hl=en&user=sJ7wlksAAAAJ***)

Honors Received

2022	Selected as an ACE Fellow
2018	Test of Time Award for 2008 Paper, EDBT conference
2018	10 Year Best Paper Award for 2008 paper, ACM SACMAT

2014	IEEE Fellow
1999-2003	NSF CAREER Award
2003 - 2006	IBM Toronto Center for Advanced Studies Fellow
Multiple years	IBM Faculty Award

Selected Professional services

I have served on the Program Committee for many international conferences organized by IEEE and ACM. I've been the Program chair of several conferences multiple times. I've also served on organizing committees, including serving as general chair of IEEE Mobile Data Management and ACM Conference on Data Security and Privacy multiple times. In addition, I routinely review papers for several prominent journals in my field, and serve on review panels for grants in the US and other countries. I am currently on the editorial board of an international journal -- IEEE Trans. On Dependable and Secure Computing. I have previously served on the Editorial board of other journals such as Communications of the ACM. I've been asked to serve on the committee that evaluates Fellow candidates from across the world for the IEEE Computer Society several times. I am routinely asked to evaluate candidates for tenure and promotion.

University Service

I'm currently serving as the Acting Dean of the College, and in that role serve on a variety of campus committees. In my twenty plus years at UMBC, I've served and led almost all the committees in my department, including serving as the Graduate program director of Computer Science. I've also served on multiple university level committees, including serving as the chair of the computer policy committee. I was also asked to chair the search committees for the Provost, Vice President for Research and the Dean of the College of Engineering, where I worked with search firms to identify and recruit candidates for our positions. I have also been invited to serve as a faculty representative on the committee that oversees our Research Park.

Details of Funding, Publications, and Students

Research Support:

2023 -2025	Optimizing Knowledge Graph Reasoning for High-Performance Computing Environments, $139K, NSF (supplement to NSF I/UCRC CARTA From NSA), CoPI on supplement.
2022 -2024	Preventing Applications From Running Unwanted Code, $100K, Maryland Industrial Partnerships (MIPS), PI.
2021-2025	COLLABORATIVE:EAGER SaTC-EDU: Artificial Intelligence and Cybersecurity: from Research to the Classroom, $220K, NSF, CoPI (Tim Finin PI).
2021-2025	ARTIAMAS, Ceiling of $20M, ARL, CoI (Aryya Gangopadhyay PI)
2021-2023	*CyDeploy: Intelligent Cybersecurity Testing*, $200K, Maryland Industrial Partnerships (MIPS), PI.
2020-2021	*Reinforcement Learning for Cybersecurity/Knowledge Graphs for Cybersecurity Data*, $249K, NSA via GTRI, CoPI (Tim Finin PI)
2020-2021	*ST: SCC-PG: Bridging the Digital Gap and Identifying Cross-Cultural Pathways for Adoption of IoT Technologies to Support Super-Aging Societies in the U.S. and Japan*, $75K, NSF, PI

2019-2022	*HDR DSC: Collaborative Research: Creating and Integrating Data Science Corps to Improve the Quality of Life in Urban Areas*, $614K, NSF, CoPI. (Aryya Gangopadhyay PI).
2019-2022	*MRI: Acquisition of a Heterogeneous GPU Cluster to Facilitate Deep Learning Research at UMBC*, $300K, NSF, Senior Personnel.
2019-2020	*A Peer-led Team Learning Framework for Ethics in Computing*, $149K, Mozilla Foundation. CoPI (Helena Mentis PI).
2019-2020	*Integrated Cyber & Physical Security for Smart Homes*, $100K, Maryland Industrial Partnerships (MIPS), PI.
2018-2022	*EAGER:X+CS Pathways for non CS majors*, $299K, NSF, PI.
2018-2020	*Attribute Based Access Control for the Internet of Things*, $119K, NIST, PI
2018-2019	*Cognitive Cybersecurity*, $150K, DoD (via BAH), PI.
2018-2021	*Autonomic Cyber-Physical Systems: Resilience to Cyber Attacks*, $195K, ONR, CoPI. (Ryan Robucci PI).
2016-2019	*Accelerated Cognitive Cybersecurity Lab*, $1M, IBM, PI.
2016-2017	*Beyond Watson support for ALDA project*, $120K, NSF (supplement to NSF I/UCRC from NSA), CoPI on supplement.
2016-2017	*Building New Undergraduate Cyber Career Pathways for Students*, $10K, ONR through BHEF, PI.
2016-2019	*STO5 Technical Integrator Task Order*, $166K, NIST through MITRE, PI.
2016-2016	*STO7 Healthcare Task Order*, $68K, NIST through MITRE, PI.
2015-2018	*Anomaly Detection in Cyber-physical Systems: Resilience by Degree of Awareness*, $173,360, ONR, CoPI (Ryan Robucci PI)
2015-2016	*STO2 Basic Research Task Order*, $25K, MITRE, PI
2015-2017	*Beyond Watson Research Support*, $376K, NSF (supplement to NSF I/UCRC from NSA), PI on supplement (M. Halem PI on main award)
2013-2014	*Beyond Watson*, $140,535, NSF (supplement to NSF I/UCRC from NSA), PI on supplement (M. Halem PI on main award)
2012-2016	*T2K: From Tables to Knowledge*, $200K, NSF, PI
2012-2016	*Policy Compliant Integration of Linked Data*, $400K, NSF, CoPI (Tim Finin, PI)
2012-2014	*Social Media Analytics*, $80K, NSF I/UCRC/ Northrop Grumman, PI
2011-2012	*Situational Awareness for Threat/Vulnerability Detection*, $40K, Northrop Grumman, PI
2010-2013	*Application of Multicore Processing to Advance Personalized Medicine, Software Assurance, and Health IT*, $396K, NIST, CoPI (Yelena Yesha, PI)
2009-2012	*Platys: From Position to Place*, $700K, NSF, CO-PI (Tim Finin, PI). Collaborative grant with NCSU and Duke who got separate awards.
2009-2013	*Generating Semantic Metadata from Biomedical Images*, $500K, NIST, CoPI (Yelena Yesha,PI)
2009-2010	*Inferring the semantics of structured and unstructured data*, $100K, Microsoft External Research, CoPI (Tim Finin, PI).
2009-2011	*Understanding RSM: Relief Social Media*, $270K, Office of Naval Research (via subcontract from Lockheed Martin), CoPI (Tim Finin, PI)
2008-2010	*Policy-based WAN Configuration and Management*, $224K, DARPA (Phase II STTR with Shared Spectrum Company), PI.
2008-2013	*A Framework for Managing the Assured Information Sharing Lifecycle*, Multi-disciplinary University Research Initiative (MURI), $7.5M, AFOSR, CoPI (Tim Finin PI). UMBC is the lead institution. The amount

	is the total across all institutions with options. The UMBC share is about 25%
2008-2009	*Modeling influence, bias and information flow in Social Media*, $60K, Google, CoPI (Tim Finin, PI)
2008-2009	*Modeling bias, influence and information flow in social media*, $55K, Microsoft Research, CoPI (Tim Finin, PI)
2007-2008	CT-T: Collaborative Research: A Semantic Framework for Policy Specification and Enforcement in a Need to Share Environment, $50,000, National Science Foundation, CoPI (Tim Finin PI) (separate funding to UTD and UTSA for joint work)
2007-2009	MC2 (Muticore Computational Center), $***,*** (exact amount confidential), IBM, CoPI (M. Halem PI).
2007	Database security in Ad-Hoc Networks, $40K, Agnik LLC (STTR Phase 1 from DoD), PI
2007	SPINTEL:Information Quality for the Intelligence Analysis, $40K, Lockheed Martin, CoPI (Tim Finin, PI).
2007-2008	Context Aware Surgical Training, $168K, University of Maryland Medical System, coPI (Tim Finin, PI).
2006-2007	PWAN – Policy Driven Adaptive Networks, $40K, CoPI SharedSpectrum, Inc., STTR Phase 1 from DARPA
2006	Faculty Award, $20,000, PI, IBM
2005-2007	Automatically creating an Electronic Medical Encounter Record, $200000, University of Maryland Medical System (DARPA Traumapod subcontract), co PI
2004	Shared University Research Grant, $88,000 (approx), CoPI (M. Halem, PI), IBM.
2003-2008	ITR-SemDis: Discovering Complex Relationships in Semantic Web, $453,417, National Science Foundation, P.I.
2003-2008	ITR: Science on the Semantic Web: Prototypes in Bioinformatics, $2,350,000, National Science Foundation, Co-PI (T. Finin, PI. Other CoPIs from UMCP, UCSD, UCSF)
2003-2006	Trust and Security for the Semantic Web, $240,000, National Science Foundation, CoPI (T. Finin, PI)
2003	Equipment Grant, $125,000 (approx), CoPI (Y. Yesha, PI), Cisco Systems
2003	Shared University Research Grant, $250,000 (approx), CoPI (Y. Yesha, PI), IBM.
2002-2005	Subcontract for Security in Pervasive Computing, $73,596, BAH/NIST, P.I.
2003-2004	An Eclipse IDE for Security, Trust and Privacy Policies, IBM, $40,000, P.I.
2002-2003	UPP Award, $52,000, IBM
2002	Research Support for Pervasive Computing, $15,000, Fujitsu Labs of America, P.I.
2002-2005	Profile Driven Architecture for Data Management in Pervasive Environments, $153,190, National Science Foundation, P.I.
2002-2005	Agent Oriented Approaches to a Ubiquitous Grid, $480,726, National Science Foundation, P.I.
2002	Support for Organizing the 2002 IDM PIs Meeting, $224,905, National Science Foundation, Co-PI

2001	A Simulator to evaluate/prototype Local Area and Personal Area Wireless Network protocols and products, $79,800, AetherSystems Inc, Co-PI (D. Phatak, PI)
2000	Disconnected Web Browsing, $69,332, AetherSystems Inc, P.I.
2000	Home Automation Service Discovery, $132,720, AetherSystens Inc, Co-PI (T. Finin, PI)
2000-2004	Dynamic Negotiation Agents in Mobile Computing, $174,000, National Science Foundation, P.I.
2000-2005	DAML Program, $1,742,524, DARPA, Co-PI (T. Finin PI, Two other CoPIs from JHU-APL and MIT).
2000	An Expertise Recommender using Web Mining, $58,089, NASA/USRA, P.I.
2000	Data Analysis for Intrusion Detection, $15,000, Department of Defence, Co-PI. (C. Nicholas, PI)
1999-2004	CAREER: MultiAgent Systems to Support Mobile Information Access, $213,952, National Science Foundation, P.I.
July 1999	Summer Fellowship, UMBC Graduate School, $2500,
1998-2002	Web Mining and Personalization Using Robust Fuzzy Clustering, $163,713, National Science Foundation, PI (Separate Collaborative award to colleague at Colorado School of Mines)
1998-99	ILI: Distributed Systems Lab, $91,960 ($41,460 from NSF, $50,000 match), National Science Foundation, P.I.
1997-1999	Ubiquitous Computing to Support Humanitarian Demining, $30,815, Research Board - University of Missouri, P.I. (This award was transferred to H. Shi at my request when I left the University of Missouri)
1997-1999	UPP Faculty Development Award - Intelligent Agent Proxies to support Mobile Computing, $80,000 + Equipment, IBM Corporation, P.I.
1998-1999	A vBNS Connection for the University of Missouri-Columbia, $350,000(NSF) + $600,000 (Cost Share), National Science Foundation, Faculty Associate,
1997	Faculty International Travel Award, $600, University of Missouri
1995	Unrestricted grant to support research in Mobile Computing, $10,000, Intel Corporation, Co-PI.
1995	SciencePad Project, $90,000, Intel Corporation, Co-PI .
1995	Equipment award of for "Purdue-on-Line'', over $150,000, IBM Corporation, co-PI
1994-1996	NSF (CISE) Research Associate Award given to E. N. Houstis to support my work in ubiquitous, intelligent scientific computing, $46,200 , National Science Foundation
1994	Special Purpose Grants in Science and Engineering - Classroom of the future project, $22,000, AT&T Foundation, Co-PI

Research Support for Students

NSF Graduate Fellowship for Patricia Ordonez, 2007-2010
IBM Fellowship from Toronto CAS for Dipanjan Chakraborty, $78,000, 2001-2003
Provost's UGRA Award for Amina Mahmood, $1500, 2020-2021
Provost's UGRA Award for Mohammed Khalid, $1500, 2020-2021
Provost's UGRA Award for Morgan Madiera, $1500, 2011-2012.
Provost's UGRA Award for Ramya Ramakrishnan, $1500, 2001-2002.

Patents

1. *US9,558,267*, Real Time Data Mining, Koustuv Dasgupta, Nilanjan Banerjee, Dipanjan Chakraborty, Sumit Mittal, Seema Nagar, ***Anupam Joshi***, Angshu Rai

2. *US9,378,349*, Enabling Secure Transactions between spoken web sites, ***Anupam Joshi***

3. *US9,223,953*, Enabling Secure Transactions between spoken web sites, ***Anupam Joshi***

4. *US8,898,163,* Real Time Information Mining, Nilanjan Banerjee, Dipanjan Chakraborty, ***Anupam Joshi***, Sumit Mittal, Seema Nagar, Angshu Rai, Koustuv Dasgupta

5. *US8,825,661*, Systems and methods for two stream indexing of audio content, ***Anupam Joshi***, Sougata Mukherjea, Nitendra Rajput

6. *US8,539,561*, Systems and methods to control device endpoint behavior using personae and policies, Akhilesh Gupta, ***Anupam Joshi***, Gopal Pingali

7. *US8,522,023*, Rural services platform, Vikas Agarwal, ***Anupam Joshi***, Shalini Kapoor, Sumit Mittal, Sougata Mukherjea

8. *US8,447,269*, Systems and methods for joint analytics on user level and network level data of a communications network, ***Anupam Joshi***, Ravi Kothari, Ankur Narang

9. *US8,463,705*, Systems and methods for transactions on the telecom web, ***Anupam Joshi***, Srinivas G Narayana, Aaditeshwar Seth

Students:
I have served on the committee of several students at both the MS and PhD level. I indicate below only those students whose committees I chaired. I've also been the external examiner for PhD theses from Monash University (Australia), IIT-Delhi (India), IISc (India), IIIT-Delhi(India) and IIT-Guwahati (India).

Ph.D.

Sai Sree Laya Chukkapalli, Aug 2024, Chair
Anantaa Kotal, Aug 2024, Chair
Priyanka Ranade, May 2024, Chair
Aritran Piplai, May 2023, Chair.
Sudip Mittal, May 2019, Chair
Sandeep Narayanan, May 2019, Chair
Kush Khanna, 2019, Co-Chair (at IIT Delhi)
Sandeep Kumar , 2019, Co-Chair (at IIT Delhi)
Prajit Das, Aug 2017, Chair
David Mountain, May 2017, Chair (part time student)
Clare Grasso, May 2017, Chair
M. Lisa Matthews, May 2017, Chair (SFS Fellowship)
Randy Schauer, PhD Summer 2014, Chair (part time student)
Wenjia Li, Aug 2011, Chair.
Palanivel Kodeswaran, May 2011, Chair
Sethuram Balaji Kodeswaran, Aug 2008, Chair (part time student)
Jim Parker, Dec 2008, Chair (part time student)
Anand Patwardhan, May 2007, Chair

Sasikanth Avancha, Aug 2005, Chair (MS, December 2001)
Filip Perich, May 2004, Chair
Dipanjan Chakraborty, June 2004, Chair

Vladimir Korolev, PhD Expected 2025, Chair (part time student)

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