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SUMMARY

At the University of Minnesota, I have established and led a research laboratory, which conducts research in the information and knowledge aspects of computing. During this course I have supervised 46 Ph.D. dissertations, 70 M.S. theses, and a number of post-doctoral researchers. In the process, I have authored or co-authored over 470 creative works as papers in refereed journals, conferences, and invited book chapters. I have been a co-inventor on 6 assigned patents, and a number of them under review. A series of prototype software systems have built in my laboratory to evaluate and validate our research results; and have acted as vehicles of technology transfer. My Google Scholar citation count is 31,853, with an h-index of 65 and i-10 index of 283. My research has won 7 best paper awards.

In support of my research activity, I have been the PI or co-PI on 68 research grants, from federal agencies, including NSF, DARPA, ARL, ARI, NIH, CDC, AFRL, IARPA, ARDA, as well as state agencies such as MNDoT, and the industry, including IBM, Honeywell, and United Technologies. In addition, I have participated in a number of successful collaborative research/infrastructure grant efforts.

I have served on the editorial boards of IEEE Transactions on Parallel and Distributed Systems (TPDS), the VLDB Journal, the Knowledge and Information Systems Journal (KAIS), and the World-Wide Web Journal, and the IEEE Transactions of Knowledge and Data Engineering (TKDE), and as a guest editor for the Data Mining & Knowledge Discovery Journal and IEEE TKDE. I have served as Program and Conference Chair for a number of prominent conferences, especially in the area of data mining. I have delivered a number of keynote addresses, plenary talks, and invited tutorials at major conferences.

Most recently I spent three years at Qatar Computing Research Institute (QCRI), a flagship institute of Qatar Foundation (https://www.qf.org.qa/), as Research Director and Chief Scientist. This is an institute with around 140 people from over 30 countries worldwide, providing a highly multicultural and multi-ethnic environment. My roles involved guiding the scientific process, instituting formal review processes for personnel evaluation/promotion/hiring as well as project evaluation, and representing the institute from a scientific perspective; in addition to conducting my own research. In addition, I was the strategic interface with the people involved in technology commercialization.

I have spent significant time in the industry, transferring some of my research into practice. Specifically, in a 2-year sabbatical during 1999-2001, I was the Data Mining Architect for Amazon.com (www.amazon.com) and built a data analytics department at Yodlee (www.yodlee.com) from the ground up. During 2004-2006. I was the Chief Technology Officer for Persistent Systems (http://en.wikipedia.org/wiki/Persistent_Systems), where I led the creation of an R&D division with centers of excellence from the ground up. In addition, I oversaw the redesign of the training and technical vitalization program for the engineering staff. In 2010 I Co-Founded Ninja Metrics

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(www.ninjametrics.com), a startup company to commercialize my research in game analytics, and served as its Chief Technology Officer.

I have served as the US federal government's expert witness in a nationally significant case, which involved expressing my opinion on what constitutes computer science research and development. I have been a technology advisor to the Government of Maharashtra, and have consulted with a number of private corporations and government organizations, including CDAC, Tata Infotech and Persistent Systems. I've served as Senior Technology Advisor to the State of Minnesota, providing input into technology policy, and helping a major transformation of the government's operations through better use of information technology. As a member of its Technology Advisory and Review Board (TARB), I have provided technology advice to the Government of India for the Unique ID project (http://online.wsj.com/article/SB10001424052748704652104575493490951809322.html), the world's largest project to issue biometric-baseds ID's to over 1.4 billion citizens of India.

I have been elected as a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the world's premier professional society in the field. I'm serving as a Distinguished Visiting Professor at the Gangawal School of Medical Sciences and Technology at IIT Kanpur. I've been a Distinguished Fellow of Allina's Center for Healthcare Innovation. I have been appointed as IEEE's Distinguished Visitor, and have given over 100 invited talks in over 30 countries, including over 60 Keynotes/Tutorials/Plenary addresses. I have been awarded the Distinguished Contributions Award by the PAKDD Society for my lifetime contributions to the field of data mining.

AREAS OF INTEREST

Machine Learning, Data Mining, Internet Computing, Computational Social Science, Digital Health

EDUCATION

Ph.D. in Computer Science	U.C. Berkeley, USA	1988
M.S. in Computer Science	U.C. Berkeley, USA	1985
B. Tech. in Computer Science	I.I.T. Kanpur, India	1983

EMPLOYMENT

July 2000 – present
Professor
Department of Computer Science & Engineering
University of Minnesota, Minneapolis, MN

August 2022 – present
Professor (Affiliate)
Hubbard School of Journalism
University of Minnesota

August 2023 – present

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Distinguished Visiting Professor
Gangwal School of Medical Sciences and Technology (GSMST)
Indian Institute of Technology, Kanpur, India

January 2020 – present
Founder and Chief Technology Officer
Truro Inc. – a company that uses AI/ML to optimize patient engagement in the healthcare industry

October 2014 – August 2017
Chief Scientist, QCRI
Research Director, Social Computing
Qatar Computing Research Institute (QCRI)
Doha, Qatar

March 2010 – 2014
Co-Founder and President
Ninja Metrics, Inc. – a start-up company that focuses on analytics for social systems and social media
Los Angeles, CA

May 2004 – July 2006
Chief Technology Officer (Advising), Persistent Systems, Inc. – a 4000 person company that provides outsourced software engineering services to over 150 software companies
Pune, India

May 2000 – April 2001
Director – Data Analytics, Yodlee, Inc. – a privately held company which aggregates financial, credit, travel, lifestyle, etc. information of individuals and uses data mining to provide value-added services
Redwood City, CA

October 1999 – April 2000
Data Mining Architect, Amazon.com, Inc.
Seattle, WA

July 1994 – June 2000
Associate Professor, Department of Computer Science & Engineering
University of Minnesota, Minneapolis, MN

October 1988 – August 1994
Assistant Professor, Department of Computer Science & Engineering
University of Minnesota, Minneapolis, MN

January 1984 – September 1988
Graduate Research Assistant, Computer Science Division
University of California, Berkeley, CA

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August 1983 – December 1983
Assistant Research Engineer, Uptron Digital Systems Ltd.
Lucknow, India

HONORS & AWARDS

Distinguished Visiting Faculty, IIT Kanpur	2023 – present
Best Paper Award, ISCRAM Conference	2016
PAKDD Distinguished Contributions Award	2013
Best Paper Award, IEEE Social Computing	2012
Distinguished Fellow, Allina Center for Healthcare Innovation	2011 – present
Best Paper Award, ACM Web Science Conference	2011
Best Paper Award, Doctoral Symposium, PAKDD	2011
Best Paper Award, Society and the Gaming Conference	2011
2nd Prize Award, Data Mining Case Studies Competition, KDD	2008
Honorary Professor, Wuhan University, Wuhan, China	2007 – 2010
Elected Fellow of the IEEE	2004
IEEE Distinguished Visitor	2003 – 2006
IBM Faculty Award	2003
Best Paper Award, IASTED/ISMM Conference on Multimedia Systems	1999
Honorary Professor, Heilongjiang University, Harbin, China	1997 – 2000
Bush Foundation Fellow for Teaching Excellence	1993 – 1994
NSF Research Initiation Award	1991 – 1993
Eugene and Mona Faye Fellow, U.C. Berkeley	1984 – 1988
National Talent Scholar, India	1978 – 1983
20th Rank in IIT Entrance Exam, out of 100,000+ candidates	1978
2nd Rank in Indian School Certificate Exam, out of 70,000+ candidates	1978

CONSULTATION & ADVISING

Chief Scientist and Advisor, Amberoon, Inc.	2023 – present
Advisor, Advisory Aerospace, Inc.	2021 – present
Advisor, Kipsu Inc.	2014 – present
Advisor, G2ytics	2017 – present
Advisory Board Member, Jornaya Inc.	2013 – 2015
Chief Scientist and Advisor, CogCubed Inc.	2012 – 2014
Government of India, UIDAI project	2011 – present
Contata Systems	2009 – present
Huawei Telecom	2008 – 2010
38 Studios	2009
KPMG	2007 – 2009
US Army	1998 – 2002
State of Minnesota	2006 – 2008
Persistent Systems	2003 – 2006

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Eaton Corporation	2006 – 2010
Government of Maharashtra, India	2005 – 2008
Infobionics	2003 – 2007
United Technologies	2004 – 2006
Round Table Group	2002 – 2004
Tacoda Systems	2002, 2006
3M Corporation	2000
Lancet Software	1998 – 1999
Apertus Technologies Inc.	1994 – 1996
Tata Infotech Ltd., India	1992 – 1997
Cargill Inc.	1995 – 1996
Life Rate Systems, Inc.	1996
Center for Development of Advanced Computing (C-DAC), India	1992 – 1994

ADMINISTRATIVE EXPERIENCE

August 2014 – August 2017

Research Director and Chief Scientist, Qatar Computing Research Institute

This is an institute with around 140 people from over 30 countries worldwide, providing a highly multicultural and multi-ethnic environment. My roles involved guiding the scientific process, instituting formal review processes for personnel evaluation/promotion/hiring as well as project evaluation, and representing the institute from a scientific perspective; in addition to conducting my own research. In addition, I was the strategic interface with the people involved in technology commercialization.

July 2010 – August 2014

CTO and Co-Founder of Ninja Metrics, a Social Analytics Start-Up. Responsible for all technology and engineering aspects of the company.

May 2001 – August 2001

Chief Technology Officer, Chingari, Inc. Overall technology responsibility for the company, which was developing enterprise class software. Responsibilities included providing the technology and architecture vision, providing guidance to the engineering team in their design and implementation efforts, and keeping the board members up-to-date with the technical directions of the company. As a key executive of the company, I was actively involved in planning and administrative matters.

May 2000 – April 2001

Director, Data Analytics, Yodlee, Inc. Created an analytics department in 12 months, in a fast-paced, very high-pressure start-up environment, under extremely tight deadlines and budget. While building this department, also managed the expectations of well-established corporate customers such as Citibank, Chase, Fidelity, Morgan Stanley, AOL, etc. This also involved managing a corporate merger in which Yodlee bought its chief competitor, based in Atlanta. I managed a team, half of which was in Atlanta, half in San Francisco, and had some support staff in Bangalore, India.

December 1999 – April 2000

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Data Mining Architect, Amazon.com, Inc. Hired to lead a team of researchers. Grew it to six people in a span of three months, while continuing to deliver under tight deadlines. This required coordination with various other departments of Amazon.com. Established relationships and communication channels form the team to function effectively within the overall Amazon.com organization.

September 1988 – November 1999

Chair/Member of several department and college level committees on various academic issues involving curriculum design and revision, scholarships, etc.

June 1996 – September 1998

Director of Graduate Studies, Department of Computer Science

Overall management of the computer science graduate program. Responsibilities include

Formulating and implementing graduate study policies, overseeing graduate admission process,

Managing departmental financial aid (teaching assistantships, fellowships & scholarships), and tracking overall student progress.

September 1993 – August 1995

Founding Member and Associate Director, Distributed Multimedia Research Center

The activities of this University-Industry partnership include basic

and applied research, technology transfer, education & training, and joint proposal efforts to federal and other agencies.

INVITED TALKS (2001 onwards)

Tutorials/Keynote/Plenary Addresses

1. Invited talk at Bracco Medical Technologies (BMT), April 24th, 2024. *From Episodic and Reactive to Contnuous and Proactive – The Future of Digital Health.*

2. Invited talk at Becker's Health Annual Conference on Digital Health, Chicago, IL, October 4th, 2023, *From Episodic and Reactive to Contnuous and Proactive – The Future of Digital Health.*

3. Invited talk at Beckman-Coulter, Chanhassen, Minnesota, July 11th, 2023. *From Episodic and Reactive to Contnuous and Proactive – The Future of Digital Health.*

4. Invited talk at Gangawal School of Medical Science & Technology, IIT Kanpur, India, March 31st, 2023. *From Episodic Care to Continuous Care: The Future of Digital Health.*

5. Keynote at the Aadhaar 2.0 Conference, UIDAI, Government of India, New Delhi, India, November 23rd – 25th, 2021. *Deploying Trusted Digital Identities: Information Security in Aadhar.*

6. Invited talk at Computer Science & Engineering Department, University of Louisville, KY, 2021, *Social Influence and Its Impact.*

7. Keynote at the ACSS Summit, IIIT Delhi, February 2020, *Social Influence and Its Impact.*

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8. Tutorial at the 6th International Winter School on Big Data, Ancona, Italy, January 13-17, 2020, *Social Computing.*

9. Tutorial at the 5th International Winter School on Big Data, Cambridge, UK, January 7-11, 2019, *Social Computing: Computing as an Integral Tool to Understanding Human Behavior and Solving Problems of Social Relevance.*

10. Tutorial at the 4th International Winter School on Big Data, Timisoara, Romania, January 22-26, 2018, *Social Computing: Computing as an Integral Tool to Understanding Human Behavior and Solving Problems of Social Relevance.*

11. Tutorial at 2nd International Winter School on Big Data, February 8-12, 2016, Bilbao, Spain, *Social Computing: Computing as an Integral Tool to Understanding Human Behavior and Solving Problems of Social Relevance.*

12. Keynote at the Big Data Analytics (BDA) Conference, Hyderabad, India, December 16-18, 2016, *Collaborative Human Computation for Societal Scale Challenges.*

13. Keynote at the Social Informatics (SocInfo) Conference, Beijing, China, December 10-12, 2015, *Interpersonal Trust Dynamics in Online Systems – Models and Applications.*

14. Keynote at Smart Nations and Technologies (SNAT) Workshop, LARC/SMU, Singapore, December 5, 2015, *Collaborative Human Computation for Societal Scale Challenges.*

15. Keynote at IEEE/ACM ASONAM Conference, Paris, France, August 25-29, 2015, *Interpersonal Dynamics in Social Systems – Models and Applications.*

16. Tutorial at the ACM Web Search and Data Mining (WSDM) Conference, New York City, February 24-28, 2014, *Behavioral Data Mining and Network Analysis in Massive Online Games.*

17. Tutorial at the IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM), Niagra Falls, CA, August 25-28, 2013, *Social Network Analysis: A Computational Perspective.*

18. Tutorial at the Seventh International AAAI Conference on Weblogs and Social Media (ICWSM 2013), Cambridge, MA, July 8-11, *Pulse of Virtual Worlds: Behavioral Mining and SNA in Massive Online Games.*

19. Keynote at IEEE Workshop on Big Data Mining Techniques for Online Sales and Customer Service, Silicon Valley, CA, Oct 7th, 2013, *What's Around the Corner in Social Commerce?*

20. Keynote at ACM SIGMOD Workshop on Dynamic Networks Management and Mining (DyNetMM), New York, NY, June 23rd, 2013, *Mining Human Interaction Behavior Logs to Understand Social Dynamics.*

21. Keynote at AAMAS Workshop on Multiagent Interaction Networks, St. Paul, MN, May 7th, 2013, *Mining Multiplayer Game Logs to Understand Social Dynamics*.

22. Tutorial on *Social Network Analysis* at PAKDD Big Data School, Sydney, April 9-11, 2013.

23. Keynote talk at Big Data Analytics Workshop, New Delhi, India, December 24-26, 2012, *Social and Behavioral Informatics*.

24. ACM Lecture at University of Tokyo, August 24, 2012, Japan, *Social and Behavioral Informatics*.

25. ICCC Global Lecture at Korea Advanced Institute of Science & Technology (KAIST), Aug 16-21, 2012, Korea, *Social and Behavioral Informatics*.

26. Invited talk as part of the Inspire Seminar Series, Unique Identification Authority of India (UIDAI), New Delhi, December 2011, India, *The Age of Data & the Fourth Paradigm*.

27. Plenary talk at TACTiCS 2011, New Delhi, India, *Data Mining for Computational Social Science*.

28. Keynote talk at Conference on Business Applications of Social Network Analysis (BASNA), Bangalore, India, December 2011, *Social Network Analysis: A Business Perspective*.

29. Keynote talk at 3rd International Conference on Social Informatics (SocInfo 2011), October 8-10, Singapore, *Behavioral Informatics*.

30. Tutorial at IEEE Social Computing Conference, Oct 8-10, MIT, Boston, *Untangling Dark Webs: Theories, Methods, and Models for a Computational Social Science of Clandestine Networks*.

31. Keynote talk at Workshop on Social Network Analysis, held in conjunction with WAIM 2011 Conference, Wuhan, China, September 14, 2011, *Behavioral Informatics*.

32. Keynote talk at ECML/PKDD 2011 Workshop on Machine Learning and Data Mining and Games, Athens, Greece, September, 2011, *Behavioral Informatics*.

33. Tutorial at IEEE Health-Informatics, Imaging and Systems Biology (HISB) Conference, July 26-29, 2011, San Jose, CA, *Data Mining for Healthcare Management*.

34. Tutorial at SIAM Data Mining Conference (SDM), April 28-30, 2011, Mesa , Arizona, *Data Mining for Healthcare Management*.

35. Tutorial at Pacific Asia Knowledge Discovery in Databases (PAKDD), May 23-27, 2011, Shenzen, China, *Data Mining for Healthcare Management*.

36. Tutorial at Social, Behavioral and Predictive Modeling Workshop, University of Maryland, March 28, 2011, *Behavioral Analytics*.

37. Keynote talk at Human Centered Computing Conference (HumanCom), Cebu, Philippines, August 11-13, 2010, *MMOGs and VWs as Macroscopes of Human Behavior*.

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38. Plenary talk at International Summer Camp on Semantic Computing (ISCSC), Qingdao, July 31, 2009, *Computational Social Science and Semantic Computing.*

39. Keynote talk at International Conference on Web Engineering (ICWE), San Sebastian, Spain, August, 24-26, 2009, *Computational Social Science & Web Engineering.*

40. Plenary talk at the International Conference on Business Data Mining, Hyderabad, India, Dec 28 – 31, 2008, – *Web Mining for Business Applications.*

41. Plenary talk at the TISS Social Network Analysis Conference (SNAC), Mumbai, India, Dec 26-27, 2008, - *Social Computing – A Computer Science Perspective.*

42. Keynote talk at KPMG's Business Intelligence Summit, Dubai, UAE, Dec 18, 2008, - *Business Intelligence Tales from the Trenches.*

43. Keynote at the 23rd International Symposium on Computer and Information Sciences (ISCIS), 2008, Istanbul, Turkey, - *Data Mining for Social Network Analysis.*

44. Tutorial at Summer School, August 2008, Copenhagen, Denmark, - *Mining the Social Web.*

45. Plenary talk at IEEE Conference on Security Informatics, June 2008, Taipei, Taiwan, *Data Mining for Social Network Analysis.*

46. Tutorial at the SIAM Data Mining Conference (SDM), April 2008, Atlanta, - *Anomaly Detection.*

47. Tutorial at the SIAM Data Mining Conference (SDM), April 2008 – *Data Mining Based Social Network Analysis from Online Behavior.*

48. Invited talk at US-China Joint Meeting on Cyber-Infrastructure for Tobacco Monitoring & Control, March 2008, Beijing.

49. Tutorial at International Conference on Information and Systems Security (ICISS), December 2007, New Delhi, India – *Data Mining for Computer Security Applications.*

50. Keynote at Australian Data Mining Conference (AusDM), December 2007, Gold Coast, Australia *Data Mining for Social Network Analysis.*

51. Keynote at the International Conference on Advanced Data Mining Applications (ADMA), July 2007, Harbin, China – *Data Mining for Social Network Analysis.*

52. Keynote at IEEE Computational Intelligence and Data Mining (CIDM), April 2007, Honolulu, HI *Data Mining for Social Network Analysis.*

53. Tutorial at IEEE International Conference on Data Mining, Hong Kong, 2006 – *Data Mining for Social Network Analysis.*

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54. Tutorial at PAKDD School, Singapore, 2006 – *Customer Relationship Management in the Internet Age.*

55. Keynote at IASTED 2004 KSCE Conference – *Web Mining, Accomplishments & Future Direction.*

56. Tutorial at PAKDD 2004, Sydney, Australia – *Data Mining for Rare-Class Problems.*

57. Tutorial at IEEE International Conference on Data Mining – *Data Mining for Computer Security*, Nov 2003.

58. Keynote at PAKDD 2003, Seoul, Korea – *Web Mining, Accomplishments & Future Directions.*

59. Tutorial in PAKDD 2003, Seoul, Korea – *Data Mining for Network Intrusion Detection.*

60. Tutorial in PAKDD 2002, Taipei, Taiwan – *Data Analytics for Customer Relationship Management.*

61. Keynote address at WIDM 2001, Atlanta, GA – *Web Intelligence: Mining Web Data for Actionable Knowledge.*

62. Tutorial in PKDD 2001, Freiberg, Germany – *Mining Web Data for E-Business: Concepts & Applications.*

63. Tutorial in PAKDD 2001, Hong Kong – *Web Mining for E-Commerce.*

IEEE Distinguished Visitor Invited Talks

IEEE Louiville Chapter, Louiville, KY, March 2005
IEEE Rochester Chapter, Rochester, NY, April 2005
IEEE Mohawk Valley Chapter, Rome, NY, April 2005
University of Buenos Aires (UBA), Buenos Aires, Argentina, September, 2004
CAECES University, Buenos Aires, Argentina, September 2004
Keynote at ExpoCom, Buenos Aires, Argentina, September 2004
Universidad Catolica de Montevideo, Montevideo, Uruguay, September 2004

Other Invited Presentations – since 2000

Annenberg School of Communication, University of Southern California, February 7th, 2019, *Social Science Research in the Big Data Era – A Data Science Perspective.*
Indian Institute of Technology, Kanpur, January 16th, 2019, *Social Computing.*
Singapore Management University, Singapore, December 2015, *Social Computing.*
Indo-US Analytics Forum, Indian Institute of Science, Bangalore, India, December 2011, *Social Network Analysis.*
Laxmi Niwas Mittal Institute of Information Technology, Jaipur, *Behavior Analytics*, February 2011.
Global Logic, Delhi, India, *Behavioral Analytics*, February 2011.
Pennsylvania State University, *Behavioral Analytics*, November 2010.
Zynga Inc., San Francisco, CA, *MMOGs and VWs as Macroscopes of Human Behavior*, April 1, 2010
IIIT – Delhi, India, *MMOGs and VWs as Macroscopes of Human Behavior*, March 18, 2010
Tata Consultancy Services, Delhi, India, *MMOGs and VWs as Macroscopes of Human Behavior*, March 26, 2010

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Eaton India Innovation Center, *Data Mining – Concepts and Applications*, March 19, 2010.
University of Michigan, Ann Arbor, MI, *MMOGs and VWs as Macroscopes of Human Behavior*, Novermber 25th, 2009.
SIFT Inc., Minnapolis, MN, *MMOGs and VWs as Macroscopes of Human Behavior*, Novermber 17th, 2009.
Cloudera Systems, San Mateo, CA, *Virtual Worlds Exploratorium,* April 28th, 2009.
Xerox PARC, Palo Alto, CA, *Virtual Worlds Exploratorium*, April 29th, 2009.
University of Indiana, Bloomington, IN, *Web Mining – Concepts and Applications,* April 3rd, 2009.
NASA Aviation Safety Conference, *Data Mining for Anomaly Detection from Structured & Unstructured Data*, Denver, October 2008.
Invited Panelist, *Data Mining for Social Network Analysis*, Conference on Information Systems & Technology, Washington DC, October 2008.
Institute of Defense and Strategic Studies, National Technological University, Singapore, *Application of Data Mining for Analyzing Terrorist Threats*, April 2006
National University of Singapore, Singapore, *Who Thinks Who Knows What – Automated Analysis of an E-mail Network*, April 2006
National Library Board, Singapore, *Data Mining for Computer Security,* April 2006
National Center for Supercomputing Applications, University of Illinois – Urbana, *Who Thinks Who Knows What – Automated Analysis of an E-mail Network*, March 2006
University of Calgary, Calgary, Canada, *Customer Relationship Management in the Internet Age*, February, 2006
Persistent Systems, Pune, India, *Emerging Technologies and Their Impact on Outsourced Product Development*, January, 2006
Stern School of Business, NYU, *Data Mining Techniques for Automated Evaluation of Sales Opportunities*, November 2005
Wharton School of Business, University of Pennsylvania, *Extracting Latent Organizational Knowledge Using Data Mining,* November 2005
Carlson School of Management, Executive MBA Program, October 2005
Air Force Research Lab, Rome, NY, April 2005
Carlson School of Management, University of Minnesota, February 2005
Indian Institute of Technology Delhi, June 2004
IBM – India Research Lab, Delhi, June 2004
Persistent Systems, June 2004
Ecole Polytechnique de Nantes, France July, 2004
Ecole Polytechnique de Lille, France, July 2004
Indian Institute of Management, Lucknow, January 2004
Indian Institute of Science, Bangalore, January 2004
International Institute of Information Technology, Hyderabad, January 2004
Invited tutorial, *Data Mining for Customer Relationship Management,* CIStems Institute of Information Technology, Jaipur, India, January 2002.
Invited tutorial, *Data Mining for Customer Relationship Management,* WiseScope Technologies, Dubai, UAE, January 2002.
Invited talk, *Web Intelligence,* IBM India Research Center, Delhi, India, January 2002.

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Invited talk, *Case Studies in Personalization on the Web,* Prof. M. Subramani's class E-commerce, Carlson School of Management, University of Minnesota, Minneapolis, MN, February 2002.

Invited talk, *Managing Customer Relationships in the Internet Age,* Prof. Les Wanninger's E-commerce class, Carlson School of Management, University of Minnesota, Minneapolis, MN, March 2002.

Invited talk, *Consumer Marketing in the Internet Age,* Annual Conference of the Midwest Direct Marketing Association (MDMA), Minneapolis, MN, April 2002.

Panelist, in panel discussion on *Research Issues in E-commerce,* in Carlson School Doctoral Dissertation Symposium.

Invited talk, *Data Mining and Data Warehousing at Amazon.com,* in 6th Annual E-Commerce Symposium, Carlson School, University of Minnesota, Minneapolis, MN, April 2002.

Panelist, in panel discussion on *Role of Data Mining in Cyber Threat Analysis,* in SIAM Data Mining Conference, Washington, DC, April 2002.

Panelist, in panel discussion on *Web Analytics: Where's the Future?* in SIAM Web Analytics Workshop, Washington DC, April 2002.

Invited talk, *Research Issues in Web Mining,* Central Police University, Taiwan – ROC, May 2002.

Invited talk, *Research Issues in Web Mining,* Computer Science Department, University of California, Riverside, CA, April 2001.

Invited tutorial, *Web Mining for E-Commerce*, International Conference on Principles of Knowledge Discovery in Databases (PKDD), Frieberg, Germany, September 2001.

Invited talk, *Web Mining – Concepts and Applications,* SAS M2001 Conference, Carey, NC, October 2001.

Loss of Privacy May be Good for You, talk given at the Computer Science & Engineering Open House, November 2001.

Computer Science Department Colloquium, University of Minnesota, *Web Intelligence,* Minneapolis, MN, November 2001.

Invited talk, *Aggregation Algorithms for Compressed Data Warehouses,* University of California, Santa Cruz, December 2001.

3M Corporation, February 2000

University of Texas, Austin, September 2000

Xerox, PARC, June 2000

PROFESSIONAL ACTIVITIES

Membership of Editorial Boards

Area Editor, *Network Science* Journal, 2014 – 2016

Editorial Board Member, *IEEE Intelligent* Systems Journal, 2014 – 2018

Editorial Board Member, *International Journal of Semantic Computing*, 2007 – 2011

Editorial Board Member, *Statistical Analysis and Data Mining*, 2006 – 2010

Associate Editor, *IEEE Transactions on Parallel and Distributed Systems,* 2003 – 2006

Editorial Board, *The Very Large Database (VLDB) Journal*, 2003 – 2005

Associate Editor, *IEEE Transactions on Knowledge & Data Engineering (TKDE),* August 1999 – 2003

Member, Editorial Board, *World Wide Web Journal*, October 2002 – 2006

Guest Editor, *Data Mining & Knowledge Discovery Journal*, 2002

Associate Editor, *Knowledge & Information Systems Journal*, June 1999 – September 2000, 2003 – 2007

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Conference Organization

General Co-Chair, *IEEE International Conference on Health Informatics (ICHI),* Dallas, Texas, October 2015.

General Chair, *IEEE Social Computing Conference*, October 2013, Washington DC.

Honorary Chair, *Workshop on Social Network Analysis, in conjunction with the 12th Web Area Information Management (WAIM) Conference*, 2011, Wuhan, China.

Program Chair, *Workshop on Data Mining for Healthcare* at PAKDD 2011, Shenzen, China.

Program Chair, *Pacific-Asia Knowledge Discovery in Databases (PAKDD) Conference*, May 2011, Shenzen, China.

Program Chair, *Workshop on Data Mining for Healthcare* at PAKDD 2010, Hyderabad, India.

Co-Chair of Conference Committee, *Pacific-Asia Knowledge Discovery in Databases (PAKDD) Conference*, June 2010, Hyderabad, India.

Vice-Chair of Program Committee, *IEEE International Conference on Data Mining,* Miami, FL, November 2009.

Member, Advisory Committee, *International Conference on Sensors and Applications (SENSORCOMM) 2007*, Valencia, Spain.

Track-Chair, *IEEE International Conference on Semantic Computing (ICSC)*, Irvine, CA, 2007

Sponsorship Chair, *SIAM Data Mining Conference*, April 2007

Steering Committee Member, *PAKDD Conferences,* 2006 – present

Co-Chair of Conference Committee, *Pacific-Asia Knowledge Discovery in Databases (PAKDD) Conference*, April 2006, Singapore.

Co-Chair of Conference Committee, *SIAM Data Mining Conference*, April 2006, Bethesda, Maryland.

Organizing Committee Member, *Workshop on Customer Relationship Management Meets Data Mining*, Stern School of Business, NYU, New York, November 2005

Co-Chair of Program Committee (Industry Track), *ACM SIGKDD Conference on Data Mining*, August 2005

Co-Chair of Program Committee, *SIAM Data Mining Conference*, April 2005

Co-Chair of Organizing Committee, *SDM Workshop on Link Analysis and Cyber Security,* Orlando, FL, April 2004

Vice-Chair of Program Committee, *IEEE International Conference on Data Mining,* Brighton, UK, November 2004

Co-Chair of Conference Committee, *M2003 Conference on Data Mining,* Las Vegas, October 2003

Co-Chair of Program Committee, *ACM WebKDD 2003 Workshop - Webmining as a Premise to Effective And Intelligent Web Applications*, Washington DC, August 2003

Vice-Chair of Program Committee, *IEEE International Conference on Data Mining,* Melbourne, FL, November 2003.

Co-Chair of Program Committee, *PAKDD Workshop on Mining Customer Data for CRM,* Taipei, ROC*,* 2002

Co-Chair of Program Committee, *ACM WebKDD 2002 Workshop – Web Mining for Usage Patterns and User Profile,* Edmonton, Alberta, Canada

Co-Chair of Program Committee, *SIAM Workshop on Web Mining*, Washington DC, 2002

Co-Chair of Program Committee, *ACM WebKDD 2001 Workshop – Mining Customer Data Across Multiple Touch Points,* San Francisco, CA

Co-Chair of Program Committee, *SIAM Workshop on Web Mining, 2001,* Chicago, IL

Co-Chair of Program Committee, *ACM WebKDD 2000 Workshop – WebMining for E-commerce,* Boston, MA

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Co-Chair of the Program Committee, *IEEE International Conference on Multimedia Software Engineering, 2000,Taipei, ROC*
Program Vice Chair, *IEEE International Conference on Tools for AI (ICTAI),* 1999
Panel Organizer, *IEEE International Conference on Tools for AI (ICTAI),* Newport Beach, CA, 1997
Treasurer, *ACM-SIGMOD International Conference on Data Management*, 1994
Travel Committee Chair, *IEEE Region 10 Conference (TENCON)*, 1989

Membership on Program Committees

Program Committee, *SIAM Data Mining Conference,* Austin, TX, 2013.
Program Committee, *IEEE International Conference on Data Mining*, 2012.
Program Committee, *IEEE International Conference on Data Mining*, 2011.
Program Committee, *SIAM Data Mining Conference,* Phoenix, AZ, 2011.
Program Committee, *IEEE International Conference on Data Mining,* Sydney, Australia, 2010.
Program Committee, *SIAM Data Mining Conference,* Columbus, Ohio, 2010
Program Committee, *ACM SIGKDD Conference on Knowledge Discovery in Databases*, Paris, France, 2009
Program Committee, *SIAM Data Mining Conference,* Reno-Sparks, Nevada, 2009
Program Committee, *PAKDD Conference on Data Mining,* Bangkok, Thailand, 2009
Program Committee, *IEEE International Conference on Data Mining,* Pisa, Italy, 2008
Program Committee, *ACM SIGKDD Conference on Knowledge Discovery in Databases*, Las Vegas, 2008
Program Committee, *SIAM Data Mining Conference,* Atlanta, 2008
Program Committee, *PAKDD Conference on Data Mining,* Osaka, Japan, 2008
Program Committee, *IEEE International Conference on Data Mining,* Omaha, NE, 2007
Program Committee, *ACM SIGKDDConference on Knowledge Discovery in Databases*, San Jose, CA, 2007
Program Committee, *SIAM Data Mining Conference,* Minneapolis, MN, 2007
Program Committee, *PAKDD Conference on Data Mining,* Tian Jin, China, 2007
Program Committee, *ECML/PKDD Conference on Data Mining*, Berlin, Germany 2007
Program Committee, *ACM CIKM Conference*, 2007
Program Committee, *Applications of Data Mining Conference,* Harbin, China, 2007
Program Committee, *IEEE International Conference on Data Mining,* 2006
Program Committee, *ACM SIGKDD International Conference on Knowledge Discovery in Databases*, 2006
Program Committee, *The International World Wide Web Conference*, 2005
Program Committee, *International Conference on Databases for Advanced Applications (DASFAA),* 2005
Program Committee, *IEEE International Conference on Distributed Computing Systems (ICDCS),* 2005
Program Committee, *SIAM Data Mining Conference, San Francisco, CA,* 2004
Program Committee, *ACM SIGKDD Conference on Knowledge Discovery in Databases*, 2003
Program Committee, *SIAM Data Mining Conference, San Francisco, CA,* 2003
Program Committee, *Workshop on Data Mining for Actionable Knowledge, Seoul, Korea*, 2003
Program Committee, *PAKDD Conference on Data Mining,* 2002
Program Committee, *IEEE International Conference on Data Engineering (ICDE),* 2002
Program Committee, *IEEE International Conference on Data Mining (ICDM),* 2001
Program Committee, *The 2001 International Conference on Web Intelligence (WI-01),* 2001
Program Committee, *ACM SIGKDD Conference on Knowledge Discovery in Databases*, 2001
Program Committee, *IEEE International Conference on Data Mining (ICDM),* 2001
Program Committee, *SIAM Data Mining Conference,* 2001
Program Committee, *WECWIS International Conference*, 2000

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Program Committee, *Sixth International Conference on Distributed Multimedia Systems (DMS)*, 1999
Program Committee, *DAFSAA*, 1999
Program Committee, *IEEE International Conference on Tools for AI (ICTAI)*, 1998
Program Committee, *IEEE International Conference on Tools for AI (ICTAI)*, 1997
Program Committee, *Very Large Data Base (VLDB) Conference*, 1996
Program Committee, *IEEE Parallel & Distributed Information Systems (PDIS) Conference*, 1996
Program Committee, *ACM-ISCA Conference on Information & Knowledge Management*, 1996
Program Committee, *IEEE International Conference on Data Engineering (ICDE),* 1995
Program Committee, *IEEE International Conference on Data Engineering (ICDE)*, 1990
Program Committee, *International Conference on Systems Integration*, 1992
Program Committee, *International Conference on Systems Integration*, 1990
Program Committee, *IEEE Region 10 Conference (TENCON),* 1989

Other External Service

Panelist, *SIAM Data Mining Conference, April 2002*
Panelist, *International Symposium on Databases in Parallel and Distributed Systems*, *1988*
Invited participant in a study group (organized by the Air Force) to develop a white paper for the *Next Generation Information Environment*, 1997
Panelist, NSF Proposal Review Panel (Database & Expert Systems Group), 1994, 1996, 1999, 2000, 2001
Panelist, NASA Proposal Review Panel, 1995, 1997
Reviewer for various IEEE, ACM, and other Journals and Conferences

University Committees Served

Member of the search committee for the Department Head for ISyE, 2023-24
Member of the search committee for the Director of Earl Bakken Medical Devices Center, 2023-24
Co-Chair of the DSI-Digital Health research committee of the Data Science Initiative, 2023-present
Co-Chair, College Committee to develop proposal for Data Science Initiative, Spring 2020
Member of Senate Research Committee (2022-2025)
Leading various efforts in Digital Health at the College and University levels (2022 –present)
Member of DS-ML faculty search committee (2022-23)
Chair, College Search Committee for Data Science Initiative Director, Spring 2021
Distinguished Dissertation Award, Physical Sciences/Engineering, 2008 – present
Lead faculty, DTC Data Mining Consortium, 2006 – 2008
Chair, Institute of Technology Committee on designing an Information Technology minor, 1999
Member, Institute of Technology Committee on Educational Outreach to the Industry, 1998-99
Member, University wide Committee on Electronic Theses & Dissertations, 1998
Chair, Computer Science & Engineering Department's External Affairs Committee, 1998-99
Director of Graduate Studies, Computer Science & Engineering, 1996-97, 1997-98

POST-DOCTORAL/VISITOR SUPERVISION

1. Li, Jian-Zhong, Harbin Institute of Technology, China.

2. Hady Lauw, Nanyang Technological University, Singapore.

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3. Shang Ming-Sheng, University of Engineering, Science & Technology of China, Chengdu, China.

4. Samir El Hady, Cairo University, Egypt.

5. Shatrujeet Kapur, Indian Police Service, Haryana, India.

6. Pranab Mohanty, Indian Police Service, Karnataka, India.

7. Subrat K. Dash, Laxmi Niwas Mittal Institute of Information Technology (LNMIIT), Jaipur, India.

8. Thilo Maeir, Daimler Chrysler Research, Ulm, Germany.

9. Qian, Tie-Yun, Wuhan University, China.

10. Loh, Woong-Kee, Sungkyul University, Korea.

11. Xia Hu, University of Engineering, Science and Technology of China, Chengdu, China.

12. Tian, Yong-Hong, Beijing University, Beijing, China.

13. Kim, Young Ae, Samsung Electronics, Korea.

14. Zhou, Jun-Lin, University of Engineering, Science and Technology of China, Chengdu, China.

15. Chang, Jae-Woo, Korea.

16. Oh, Jae-Wan, Sungkyunkwan University, Korea.

17. Zhen, Liu, University of Engineering, Science and Technology of China, Chengdu, China.

18. Feng, Xiao-dong, University of Science and Technology, Beijing, China.

19. Prof. Olfa Nasraoui, University of Louisville, Kentucky.

Ph. D. DISSERTATION SUPERVISION (15 have joined Academia)

1. Raunak Manekar, *Deep Learning Phase Retrieval for Computational Microscopy*, 2023.

2. Karan Aggarwal, *Models for Limited Labeled Time Series with Applications in Sleep Science*, 2023, first employment as Research Scientist, Amazon.com.

3. Matheus Lima Diniz Araujo, *Predicting Therapy Adherence: A Machine Learning Approach*, 2021, first employment as Research Scientist at Cleveland Clinic, Cleveland, OH.

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4. Shalini Pandey, *Personalized Online Self-Learning*, 2021, first appointment as Research Scientist at Facebook, Inc, Menlo Park, CA.

5. Bhavtosh Rath, *Epidemiology Inspired Framework for False Information Mitigation in Social Networks,* 2020, first employment as Machine Learning Scientist at Target, Inc., Minneapolis, MN.

6. Pranab Mohanty, *A Computational Approach to Identifying Covertness and Collusion in Social Networks*, 2020, employed as Deputy Director General (DDG) at the Unique Identification Authority of India (UIDAI).

7. Ankit Sharma, *Hypergraph Analytics: Modeling Higher-Order Structures and Probabilities*, 2020, employed as Asst. Professor at IIIT Jodhpur, India.

8. Aarti Sathyanarayana, *Computational Sleep Science: Machine Learning for Detection, Diagnosis and Treatment of Sleep Problems*, 2017, first employment as Postdoctoral Researcher at Computational Health and Informatics Program, Harvard Medical School, Boston, MA; currently Asst. Professor of Computer Science, with joint appointment in the Medical School, Northeastern University, Boston.

9. Atanu Roy, *Computational Trust at Different Granularities in Online Systems*, 2015, first employment as Scientist, Ancestry.com, San Francisco, CA.

10. Chandrima Sarkar, *Improving Predictive Modeling in High-Dimensional, Sparse Datasets*, 2015, first employment as Scientist, @Walmart Labs, Sunnyvale, CA.

11. Zoheb H. Borbora, *Computational Analysis of Churn in Online Social Systems*, 2015, first employment as Chief Technology Officer, Fastbridge Systems, Minneapolis, MN.

12. Karthik Subbian, *Scalable Analysis of Information Flows in Networks*, 2014, first employment as Senior Research Scientist, FaceBook Inc.(co-advisor: Prof. Arindam Banerjee)

13. Komal Kapoor, *Models of Dynamic User Preferences and their Applications to Recommendation and Retention*, 2014, first employment as Research Scientist, FaceBook Inc. (co-advisor: Prof. Paul Schrater)

14. Ayush Singhal, *Leveraging Open Source Web Resources to Improve Retrieval of Low Text Content Items*, 2014, first employment as Engineer at FAST, Minneapolis, MN.

15. Colin DeLong, *An Exploration of Team Chemistry in Team Games*, 2013, first employment as Manager for Student IT Services, University of Minnesota.

16. Amogh Mahapatra, *A Computational Approach to Detection of Conceptual Incongruity in Text and Its Applications*, May 2013; first employment as Research Scientist, Nuance, Inc.

17. Nishith Pathak, *Analyzing Information Flow in Social Networks: Communities, Topics, Cognition, and Influence*, April 2012; first employment as Senior Engineer, Nina Metrics, Minneapolis, MN.

18. Muhammad Aurangzeb Ahmad, *Computational Trust in Multiplayer Online Games*, December 2011; first employment as Senior Engineer, Ninja Metrics, Minneapolis, MN.

19. Kyong Jin Shim, *A Computational Approach to the Study of Player and Group Performance in Massively Multiplayer Online Games*, December 2011; first employment as Assistant Professor, Singapore Management University, Singapore.

20. Kuo-Wei (David) Hsu, *Improving Bagging Performance through Multi-Algorithm Ensembles*, December 2010; first employment as Assistant Professor, NCCU, Taiwan.

21. Prasanna K. Desikan, *Efficient Computation of First Order Markov Metrics on Large, Evolving Graphs,* March 2009; first employment as Chief Architect at Infobinoics, Inc.

22. Sandeep V. Mane, *False Negative Estimation: Theory, Algorithms and Applications*, January 2008, first employment as Senior Engineer at Oracle, Inc.

23. Haiyang Liu, *Energy Efficient Data Management in Wireless Sensor Networks*, October 2007, first employment as Senior Research Scientist, Honeywell, Inc.

24. Yingshu Li, *Energy Management in Wireless Networks*, May 2005; first employment as tenure track Assistant Professor, Georgia State University, Atlanta, GA. (Co-advisor with Prof. D.Z. Du); *winner of the prestigious CAREER Award of the US National Science Foundation, 2006*.

25. Ajay Bhushan Pandey, *Using Team Network Structure to Improve Software Quality and Team Knowledge*, November 2004; Dr. Pandey is a 1984 batch IAS officer, who is presently serving as Managing Director of Maharashtra State Electricity Distribution Corporation (MSEDC).

26. Srivatsan Varadarajan, *End-to-End Quality of Service (QoS) Strategies for Content Streaming in Real Time Over Different Networks*, September 2004; first employment as Senior Research Scientist, Honeywell Labs, Inc.

27. Raja Harinath, *Quality of Service (QoS) Aware Multimedia Frameworks*, November 2003; first employment as Senior Research Scientist, Novell Inc.

28. Mukund Deshpande, *Frequent Sub-structure Based Approaches for Classifying Chemical Compounds*, November 2003; first employment as Senior Scientist at Oracle Corp. (Co-adviser with Prof. George Karypis).

29. Jamshid Vayghan, *Data Mining for Sales Opportunity Analysis*, October 2003; first employment as Senior Technical Manager at IBM Corp.

30. Pang-Ning Tan, *Discovery of Indirect Associations & Its Application,* July 2002; first employment as Assistant Professor in the Computer Science Department, Michigan State University; (Co-adviser with Prof. Vipin Kumar).

31. Valerie Guralnik, *Mining Sequential Data,* July 2001; first employment as Senior Research Scientist at Honeywell Labs, Inc.; (Co-adviser with Prof. G. Karypis).

32. Difu Su, *Presentation Quality of Service (QoS) for Multimedia Systems*, November 2000; first employment as Wireless Services Architect at Yahoo, Inc.

33. Thomas M. Niccum, *Parallel Query Optimization,* April 2000; President – Lancet Software, MN, and Adjunct faculty member, Computer Science & Engineering, University of Minnesota.

34. Robert Cooley, *Web Mining – Data Mining from Web Data*, March 2000; employed as Vice President of Technology at KXEN.

35. Wonjun Lee, *Quality-of-Service Provisioning for Multimedia Applications*, June 1999; employed as Associate Professor at Korea University, Korea.

36. M. Ganesh, *Data Mining for Database Integration,* May 1997; first employment as Research Scientist at Lawrence Livermore National Laboratories, Livermore, CA.

37. Duminda Wijesekera, *Quality of Service for Continuous Media: Metrics, Validation, Mechanisms, and Evaluation,* December 1997, currently employed as Associate Professor at George Mason University, Fairfax, VA.

38. Youjip Won, *Issues in Designing a Distributed Hierarchical Storage System for Continuous Media Service,* August 1997, currently employed as Associate Professor at Hanyang National University, South Korea.

39. Deepak R. Kenchammana-Hosekote, *Incremental Retrieval for Continuous Media Servers: Model, Algorithms & Evaluation,* August 1996, currently employed as Principal Research Scientist at IBM Almaden Research Center, San Jose, CA.

40. Paul N. Pazandak, *Multimedia Language Constructs and Execution Environments for Next-Generation Interactive Applications,* August 1996; currently employed as Senior Scientist at General Dynamics, Minneapolis, MN.

41. Ahmet Cosar, *Design & Experimental Evaluation of a Multiple Query Optimizer*, February 1996; currently employed as Associate Professor, Middle Eastern Technical University, Ankara, Turkey.

42. San-Yih Hwang, *Transaction Management in Federated Database Systems,* February 1994; currently employed as Professor, National Sun-Yat Sen University, Taiwan, ROC.

43. Ee-Peng Lim, *Instance Level Integration, Query Processing, and Optimization in Federated Database Systems*, February 1994; currently employed as Professor & Director of LARC, Singapore Management University, Singapore.

44. Jau-Hwang Wang, *A Transaction Model for Parallel Rule Execution*, September 1992, currently employed as Professor at Central Police University, Taiwan, ROC.

45. Woo Saeng Kim, *Resource Management & Concurrency Control for Real-Time Databases,* October 1991; currently employed as Professor at Kwangwoon University, South Korea.

46. Jack S. Eddy Tan, *Matching Algorithms for Database Production Systems*, August 1990; currently employed as Professor, University of Wisconsin, La Crosse, WI.

M.S. THESIS SUPERVISION

1.	Abinash Sinha	Machine Learning	2023
2.	Abhiraj Mohan	Machine Learning	2022
3.	Tanveer S. Virdi	Learning Analytics	2021
4.	Arpita Chandra	Social Computing	2019
5.	Mourya Karan Reddy Baddam	Digital Health	2020
6.	Roopana Veppalapati Chenchu	Social Computing	2020
7.	Swaraj Khadanga	Digital Health	2019
8.	Rai Shivapat Ray	Data Science	2018
9.	Saloni Srivastava	Data Mining	2016
10.	Dhruv Sharma	Social Computing	2014
11.	Sarvesh Saran	Social Computing	2014
12.	Chidananda Sridhar	Social Computing	2014
13.	Kushal Mittal	Data Mining	2013
14.	Senthil K. Krishnamoorthy	Social Computing	2012
15.	Peter Clark	Database	2011
16.	Mayank Ayush	Data Mining	2011
17.	Ridhima Rajkumar	Data Mining	2010
18.	Rakesh Ramakrishnan	Data Mining	2010
19.	Kruthi C. Nagaraj	Data Mining	2010
20.	Vijay K. Ramadoss	Data Mining	2008
21.	Aishwarya Sundar	Data Mining	2008
22.	Prasad Sriram	Database	2008
23.	Sandeep Mane	Data Mining	2007
24.	Nupur Bhatnagar	Data Mining	2007
25.	Kalyan Pamarthy	Data Mining	2007
26.	Kalyan Beemanpalli	Data Mining	2006
27.	Ramya Rangarajan	Data Mining	2006
28.	K. Vamsi Krishna	Data Mining	2006
29.	Kriti Mehra	Data Mining	2005
30.	Sasyasri Geedapalli	Data Mining	2005
31.	Sandeep Mopuru	Data Mining	2005
32.	Divya Padmanabhan	Data Mining	2005
33.	Praveen Vutukuru	Data Mining	2004
34.	Rashmi Pathak	Data Mining	2003
35.	Supriya Ketkar	Data Mining	2003
36.	Hemant Ramnani	Data Mining	2003
37.	Ying Shu	Data Mining	2001
38.	Pandey Ajay Bhushan Prasad	Data Mining	2001
39.	Priyank Srivastava	Data Mining	2000
40.	Hung-Quang Ngo	Multimedia	1999
41.	Srivatsan Varadarajan	Multimedia	1999

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42. Erik Larson	Data Mining	1999
43. Valerie Guralnik	Data Mining	1998
44. Robert Cooley	Data Mining	1998
45. Ping-Yao Chen	Web Database System	1998
46. H. Vernon Leighton	Search Engines	1998
47. Shwetal Parikh	Multimedia Systems	1997
48. Sunil Wadhwa	Multimedia Systems	1997
49. Sujal S. Parikh	Data Mining	1996
50. James R. Plasek	Database Benchmarking	1995
51. Ron Loi	Multimedia Systems	1995
52. Steven Waldo	CAD/CAM Databases	1995
53. Shao Jian-Feng	Text Databases	1994
54. Dave Clements	Data Integration	1994
55. Sharon Yang	Data Integration	1994
56. Bhaskar Himatsingka	Parallel Databases	1994
57. Sakuntala Kavuri	Parallel Databases	1993
58. Chih-Chung Pan	Multimedia Systems	1993
59. Thomas M. Niccum	Parallel Databases	1992
60. Farry Tjhen	Text Databases	1992
61. Tak-Yuen Melinda Chen	Real-Time Systems	1991
62. Gabriel Broner	Distributed File Systems	1991
63. Srinivas Kulkarni	Database Performance	1991
64. William Greg Sherman	Data Modeling	1991
65. Prafulla D. Nayak	Real-Time Systems	1990
66. Aditya Gurajada	Database Algorithms	1990
67. Sandhya Jayaram	Genetics Databases	1990
68. Manish Maheshwari	Knowledge Bases	1990
69. Russel Holsten	Knowledge Bases	1990
70. Fanny Santosa	Knowledge Bases	1990
71. Kam Hing Ho	Real-Time Systems	1989
72. P.M. Perry Leung	Real-Time Systems	1989

UNDERGRAD STUDENTS

1. Oran Fenstad	Digital Health	2023
2. Ayush Ram	Social Network Analysis	2023
3. Adarsh Salecha	Social Network Analysis	2022
4. Abhiraj Mohan	Sleep Science	2019
5. SakshamGoel	Sleep Science	2019

HIGH SCHOOL STUDENTS

1. Albert Kong, Breck School, Minneapolis, MN, (summer 2018).
2. Etahn Miandrisoa, Breck School, Minneapolis, MN (summer 2018).
3. Ganeshkumar Ashokvardhan, Delhi Public School, Doha, Qatar, graduated 2017 (UC Berkeley, Fall 2017).

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4. Rishabh Sinha, Detroit High School, MI, graduating in 2016 (Michigan State University, Fall 2016).
5. Rohan Sinha, Wayzata High School, MN, graduated 2015 (Arizona State U, Fall 2015).
6. Sanjana Srivastava (female), Blake High School, MN, graduated 2014 (MIT, Fall 2014).
7. Samarth Damania, Breck High School, MN, graduated 2012 (U Chicago, Fall 2012).
8. Ansh Shukla, Cupertino High School, CA, graduated 2012 (Stanford University, Fall 2012).
9. Rashi Sharan (female), Detroit Country Day School, MI, graduated 2011 (U of Michigan, Fall 2011).
10. Richa Sharan (female), Detroit Country Day School, MI, graduated 2010 (U of Pennsylvania, Fall 2010).
11. Arjun Singh, Palo Alto High School, CA, graduated 2010 (Boston University, Fall 2010).

RESEARCH GRANTS (active grants underlined)

1. *Minnesota Med Tech 3.0 (MMT 3.0)*, Economic Development Administration (EDA), US Department of Commerce, $60,500,000, 10/1/2024 – 09/30/2029. This is a collaboration involving 39 medical and technology organizations across the region. My role is as a Co-investigator from the University of Minnesota (**under review**).

2. *Reducing Recurrent Atrial Fibrillation After Ablation Using Patient-Centered Approach,* Patient Centered Outcomes Research Institute (PCORI), $15,400,000, 01/01/2025 – 12/31/2029, in collaboration with Mayo Clinic (PI: Abhishek Deshmukh); PI for the UMN sub-contract ($979,562). This is a clinical trial grant. (**under review**).

3. *A Global Brain Trust for neuroimaging, multi-omic, and multi-ethnic research,* NSF, $67,805,707, 04/01/2025 – 03/31/2030 (PI: Saonli Basu), my role is as Co-Investigator. (**under review**).

4. *My Atlas: Personalizing and Empowering Mental Health*, Office of Discovery and Translation (ODAT), University of Minnesota, $70,000, 04/01/2024 – 03/31/2026; PI, in collaboration with Aarti Sathyanarayana of Northeastern University.

5. *Role of Network Structure, User Behavior and Influence in Mitigating False Information Spread on Social Networks*, NSF (US) + DST (India), $825,000, 07/01/2024- 06/30/2027 (PI), in collaboration with IIT Delhi, UMN share (funded by the NSF) is $600,000.

6. *Development of Machine Learning-Based Predictive Models for Coagulation Parameters in Patients Receiving Heparin Infusions,* Cross Divisional Grant, Medical School, University of Minnesota, $200,000, 02/01/2024 – 01/31/2026, (PI: Julia Heneghan), my role is Co-Investigator.

7. *Midwest Disease Modeling and Analytics Preparedness Center*, Centers for Disease Control (CDC), $17,499,534, 10/2023 – 09/2028. (PI: Eva Enns), my role is as participating investigator.

8. *Technology to Guide Malaria Prevention After Severe Weather in Mozambique*, Wellcome Trust, Inc., $686,441, 11/01/2022 – 12/31/2027. (PI: Kelly Searle), my role is Co-PI.

9. *Semantic Analysis of SMS Messages*, Kipsu Inc., $116,517, 09/06/2022 – 08/31/2024, PI.

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10. *Predictive Models for Patient Deterioration in Emergency Rooms*, Allina Health, $140,000, 01/09/2020 – 08/31/2024, PI.

11. *Predictive Modeling of Sleep Quality from Sleep Behavior Data*, Inspire Medical Systems, $148,905, 01/09/2020 – 01/31/2024, PI.

12. *Leveraging Social Influence for Improved Health and Wellness*, Digital Technology Center, University of Minnesota, $50,000, 7/1/2018 – 6/30/2019 (Co-PI: Ankur Mani).

13. *MESH: A Hypergraph Analysis Engine for Understanding Large-Scale Social Networks*, National Science Foundation, $516,000, 9/1/2014 – 8/31/2019 (PI: Abhishek Chandra).

14. *Network Science Collaborative Technology Alliance (CTA) – Integration Center*, US Army (Renewal); Minnesota share is approximately $560,000, 10/01/2014 – 9/30/2017.

15. *Predicting Devaluation of Media Preferences*, SOBACO Seed grant, $47,254, September 2013 – August 2014 (PI: Paul Schrater, Co-PI: Alok Gupta).

16. *User Behavior Modeling and Randomized Experiments to Maximize Premium Subscription Adoption in Online Dating Markets*, SOBACO Seed grant, $49,000, September 2013 – August 2014, (PI: Ravi Bapna, Co-PI: Zoheb Borbora, Co-PI: Jui Ramaprasad, Co-PI: Akhmed Umyarov).

17. *EAGER: Collaborative Research: Some Assembly Required: Understanding the Emergence of Teams and Ecosystems of Teams*, National Science Foundation, Collaboration with Northwestern University and UIUC; total amount $300,000 (UMN portion $123,840), September 2012 – August 2015.

18. *Automated Detection of Precursors to Human-Automation Interaction Based Aviation Safety Incidents*, NASA, $450,000, September 2012 – August 2015 (PI: Arindam Banerjee)

19. *Early Prediction of Potentially Preventive Events for Human Health*, Allina Health, $29,163, January 2012 – December 2012.

20. *Fast algorithms for Evolving graphs via Assays, Sampling, and Tensors (FEAST)*, DARPA's Program on Graph-theoretic Research in Algorithms and the Phenomenology of Social networks (GRAPHS); $3.8M; team led by Sandia National Laboratory, PI for Minnesota ($326,000), 2012 – 2015.

21. *Understand and Utilize Context-Aware Information Dissemination in Social Media*, DARPA's Program on Social Media in Strategic Communication (SMISC); $3.5M; team lead by IBM Research, PI for Minnesota ($360,000), 2012-2015.

22. *Mining Microdata: Economic Opportunity and Spatial Mobility in Britain, Canada and the United States, 1850-1911*, NSF $124,995; participating investigator, with Evan Roberts (History) as PI; NSF's Digging Into Data Challenge, 2012 – 2014.

23. *Terra Populus: A Global Population/Environment Data Network*, NSF, $7,700,000; Co-PI with Steven Ruggles (MPC) as PI; NSF's DataNet Initiative, 2011 – 2016.

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24. *Network Science Collaborative Technology Alliance (CTA) – Integration Center*, US Army, $26,000,000 total for the collaborative, $2,200,000 four our 4 institution team on Virtual Worlds, Minnesota share is $478,001, 01/01/2010 – 12/31/2014.; 2011 supplement from BBN $45,000.

25. *The Virtual World Observatory: Identifying Real World (RW) Characteristics from Virtual Behavior*, IARPA, $2,665,424 ($901,175 for UMN), PI for Minnesota; collaborating with teams at Northwestern, UIUC, USC and U of Chicago, 10/16/2009 - 10/15/2012.

26. *Embedded Fault Detection for Low-Cost, Safety-Critical Systems*, National Science Foundation, Cyber Physical Systems program, $1,500,000, Co-PI, with Gary Balas (PI), Mats P.E. Heimdahl (Co-PI), Antonia Zhai (Co-PI), Pete Seiler (Co-PI), 9/1/2009 – 8/31/2013.

27. *The Minnesota Population Center Infrastructure Extension*, National Institute of Health, $3,639,306, participating investigator with Steve Ruggles (PI), 7/1/2008 – 6/30/2013.

28. Contata Solutions, Data Mining Research, $22,500, 2011.

29. *Use of Online Social Networks to Improve Health and Public Health Practices*, Centers for Disease Control, $50,000, Co-PI, with Michael Resnick and Marla Eisenberg, School of Public Health, 10/1/2009 – 3/31/2010.

30. *Data Analytics for Healthcare*, Lancet Software Development, $32,043, 6/15/2009 – 05/31/2010.

31. *Data Mining Based Intrusion Detection System*, Huawei Telecom, $100,000, 2/1/2009 – 1/31/2010.

32. *Accountable Care Teams for Disabled Medicare Beneficiaries*, Exploratory Grant, Robert Wood Johnson Foundation, $99,996, Co-PI, with Dave Knutson (PI) and Doug Wholey (Co-PI), both of School of Public Health, 11/1/2008 – 10/31/2009.

33. *Virtual Worlds: An Exploratorium for Theorizing and Modeling the Dynamics of Group Behavior*, Army Research Institute (ARI), $729,000 ($180,919 for UMN), PI for Minnesota; collaborating with teams at Northwestern, UIUC and USC, 10/1/2008 – 9/30/2010.

34. *Anomaly Detection from Numeric and Textual Data for Integrated Vehicle Health Management,* National Aeronautics and Space Administration (NASA), $994,859, Principal Investigator, with Vipin Kumar, William Schuler and Arindam Banerjee as Co-PIs, and UTRC as subcontractor, 1/1/2008 – 12/31/2010.

35. *DHB Virtual Worlds: An Exploration for Theorizing and Modeling the Dynamics of Group Behavior*, National Science Foundation, Human and Social Dynamics program, $749,923 ($145,168 for UMN), Principal Investigator. Collaborative project with University of Illinois, Northwestern University and University of Southern California, 9/1/2007 – 8/31/2010.

36. *Data Mining for Online Advertising*, Contata Solutions, $7,000, 4/1/2009 – 8/30/2009.

37. *Student Travel Support for SIAM Data Mining Conference, 2008,* National Science Foundation, $20,000, 4/1/2008 – 8/31/2009.

38. *Scoring Models for Driver Safety*, Eaton Inc., $7,440, 1/10/2008 – 4/10/2008.

39. *Web Mining Based User Behavior Analysis for Turbo-Tax Online*, Intuit Corporation, $26,000, 11/1/2007 – 4/30/2008.

40. *Student Travel Support for SIAM Data Mining Conference, 2007,* National Science Foundation, $15,000, 3/1/2007 – 2/29/2008.

41. *Data Mining for Tax Audit Selection – Phase II*, Minnesota Department of Revenue, J. Srivastava, funded for $48,500; 01/13/2007 – 06/30/2007.

42. *Data Mining for Social Network Analysis,* Digital Technology Initiative, $27,500, 2006.

43. *Data Mining for Tax Audit Selection – Phase I*, Minnesota Department of Revenue, J. Srivastava, funded for $12,547; 6/26/2006 – 9/1/2006.

44. *Recommendations Based on Web Usage Mining – Phase II*, Intel Corporation, J. Srivastava; funded for $88,289; 1/1/2006 – 12/31/2006.

45. *Recommendations Based on Web Usage Mining – Phase I*, Intel Corporation, J. Srivastava; funded for $75,000; 3/15/2005 – 12/31/2005.

46. *Data Mining for Animal Behavior Analysis,* National Science Foundation, S. Shekhar, A. Pusey, J. Srivastava, Richard Wrangham (Harvard co-PI); funded for $699,000 (UMN share $576,000); 2004 – 2007.

47. *Data Mining for Rare Class Analysis,* National Science Foundation, V. Kumar, J. Srivastava, A. Lazarevic; funded for $300,000; 2003 – 2006.

48. *Data Mining for Situational Awareness,* Advanced Research & Development Agency (ARDA), V. Kumar, J. Srivastava, Zhi-Li Zhang, Yongdae Kim; funded for $800,000; Oct 2003 – May 2005.

49. *Link Analysis & Its Visualization,* AHPCRC, J. Srivastava; funded for $50,000; January 2005 – December 2005.

50. *Data Mining for Investigating Causal Relationships in Liver Cirrhosis,* Digital Technology Center (Initiatives in Digital Technology), J. Srivastava, G. Karypis, V. Kumar, P. de Groen (Mayo Clinic); funded for $50,000; July 2004 – June 2005.

51. *Archiving of Gombe Data,* Digital Technology Center (Initiatives in Digital Technology), A. Pusey, S. Shekhar, J. Srivastava; funded for $29,000; July 2004 – June 2005.

52. *UTRC Graduate Fellowship*, United Technologies Research Center, J. Srivastava; funded for approximately $60,000; June 2004 – May 2005.

53. *CAST – CMS Application Specification Tool;* Fermi National Laboratory, J. Srivastava; funded for $52,217; October 2003 – August 2004.

54. *Link Analysis and Its Applications to Computer Security,* AHPCRC, J. Srivastava; funded for $50,000; Jan 2004 – December 2004.

55. *Studies in Network Intrusion Detection,* IBM Foundation, J. Srivastava; funded for $20,000; 2003.

56. *Sales Opportunity Miner*, IBM Corporation; J. Srivastava; funded for $49,000; June 2002 – May 2003.

57. *Web Graph Analysis,* AHPCRC, J. Srivastava; funded for $55,000; Jan 2003 – December 2003.

58. *CISE: Cluster Computing and Knowledge Discovery for Diverse Datasets*, National Science Foundation; G. Karypis, M. Gini, J. Riedl, J. Konstan, S. Shekhar, J. Srivastava; funded for $121,618 for the period 02/01/00 through 01/31/03. This grant was used to purchase a high-performance compute and storage cluster used for data mining research.

59. *Archiving of APS Datasets*, National Aeronautics and Space Administration, 2000 – 2003, $162,000; (co-PI on this grant, Prof. Roberta Humphreys of Astronomy is the PI).

60. *Panning for Gold: Information Discovery on the Information Superhighway*, National Science Foundation, 1996-2003, $562,500; (PI on this grant, J. Riedl & J. Konstan are co-PIs).

61. *Distributed Systems Evaluation Framework for C4ISR & JCALS*, Army Research Laboratory, 1998-99, $84,600 + $3,000 matching funds from University of Minnesota; (PI on this grant).

62. *Instrumentation for Research in Networked Information Systems*, National Science Foundation, 1998-2001, $97,000 + $63,000 match from University of Minnesota; (co-PI on this grant, PI is A. Tripathi).

63. *Distance Learning Technology for Medical Education & Training*, National Library of Medicine, 1998-1999, $100,000 seed grant to develop a full-scale proposal for a distributed infrastructure for medical distance education & training; (participating investigator on this grant, PI is Stuart Speedie from Health Informatics).

64. *Heterogeneous Distributed Information Management for the Infosphere*, Rome Laboratories, US Air Force, 1996-98, $967,000 total for our group and Honeywell; our research group's share $326,000 + $10,000 matching funds from University of Minnesota; (PI for Minnesota team).

65. *DataTool: A Tool for Data Retrieval, Analysis & Visualization of Transportation Data*, US Department of Transportation, 1994-98, $357,000; (co-PI on this grant, with J. Slagle as PI).

66. *Data Integration Research*, Apertus Technologies Inc., 1994-96, $106,000; (PI on this grant).

67. *The Presto Multimedia Data Management System*, Rome Laboratories, US Air Force, 1993-1995, $681,000 total for our group and Honeywell; our group's share $48,500; (co-PI on this grant).

68. *Distributed Real-Time Scheduling Research*, Honeywell Inc., 1993-94, $11,500.

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69. *Federated Autonomous Databases*, Rome Laboratory, US Air Force, 1991-93, $389,000 total for our group & Honeywell, our group's share $38,500; (co-PI on this grant).

70. *Query Optimization for Parallel Databases*, Research Initiation Award, National Science Foundation, 1991-93, $69,975 + $11,845 match from University of Minnesota; (PI on this grant).

71. *Data Access Integrated Services*, Electrical Power Research Institute (EPRI), 1990-91, $26,000; (co-PI on this grant).

72. *Summer support + graduate student support*, Graduate School, University of Minnesota, 1989-91, $29,000.

73. Principal Investigator on a successful proposal to fund 30+ participants to travel to IEEE Region 10 Conference (TENCON), Bombay, India; 1989, $750 + Indian Rupees 609,000; National Science Foundation.

COLLABORATIVE RESEARCH/INFRASTRUCTURE GRANTS

1. Joint Graduate Program in Neuroscience & Scientific Computing, National Science Foundation, IGERT Program, 1998-2003, approx. $2.5 million (participating investigator).

2. Co-Founder and Associate Director of Distributed Multimedia Research Center; 1993-1995, $50,000/partner/year. This University of Minnesota center had a number of industrial partners including Honeywell Inc., IVI Publishing, Computing Devices Inc., US West communications, and Network Systems. The goals of this center included collaborative research, collaborative proposals to external funding agencies, education, and technology transfer; the center faculty were from the computer science and electrical engineering departments, as well as the schools for medicine, education, and library sciences.

3. Participating Investigator on a successful proposal to establish and undergraduate robotics laboratory; 1993-95, $100,000 + $100,000; National Science Foundation and University of Minnesota; (PI was M. Gini).

4. Participating Investigator on a successful proposal to establish a High-Performance Computing & Communications Testbed for experimental research in multimedia, databases, parallel computing, and applications; 1995-00, $1,500,000 + $980,000 + $600,000; National Science Foundation, ITB, and University of Minnesota; (PI was D. Du).

5. Participating Investigator on a successful proposal to establish the Army High Performance Computing Research Center (AHPCRC); 1989-94 and 1995-00; $66.9 million and $21.0 million; US Army Research Office.

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3. Kurt E. Roots, Monika D. Roots, Jaideep Srivastava, Sanjana Srivastava, "Predictive Executive Functioning Models Using Interactive Tangible-Graphical Interface Devices", Patent No. US 9,324,241, Issued April 26, 2016.

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8. Jiancheng Eric Liu, Jaideep Srivastava, Jo An Hall, Lisa Kirkland, "Systems and Methods for Predicting Risk of Intensive Care Unit Transfer", disclosed November 2023.

9. Shalini Pandey, Jaideep Srivastava, "Exercise Recommendation Through Parallel Computing", US Patent Application no. 17/867,028, filed 2023.

10. Karan Aggarwal, Swaraj Khadanga, Shafiq Rayhan Joty, Louis Kazaglis, Jaideep Srivastava, "Sleep Staging for Monitoring Sleep Apnea Patients on CPAP Therapy", filed July 22, 2019.

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12. Aarti Satyanarayanan, Jaideep Srivastava, "Dynamic Activity Recommendation System", US patent application no. 16/556,647, USPTO docket number U011-0302US0, filed August 30th, 2018.

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