

# Vandana Singh

Associate Professor,  
School of Information Sciences,  
University of Tennessee, Knoxville,  
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## Education

B.Sc.	G.B. Pant University, Pantnagar, India	Economics	1998
M.Sc.	Wageningen University, the Netherlands	Knowledge Management Systems	2001
M.S	University of Chicago	Computer Science	2006
Ph.D.	University of Illinois at Urbana-Champaign,	Information Science	2008

Doctoral Dissertation: “*Knowledge creation, sharing and reuse in online technical support for Open Source Software.*”

Dissertation Chair: Prof. Michael Twidale, iSchool at University of Illinois at Urbana-Champaign  
Committee Members: Prof. Linda Smith, Prof. Chip Bruce (iSchool, UIUC). Prof David Nichols (Computer Science, University of Waikato – New Zealand)

## Areas of Research Interest

Technology for Libraries, Gender and Information Technology, Open Source Software, Online Communities, Diversity and Inclusion, Social Justice, Rural Libraries, User Experience, Usability, and Online Learning.

## Academic Experience

### School of Information Sciences, University of Tennessee, Knoxville

Associate Professor	August 2014 to date
Director of Undergraduate Studies	May 2017 to April 2019
Acting Associate Director, School of Information Sciences	Jan 2013 to Aug 2013
Coordinator, Information Science, and Technology Minor	Aug 2008 to July 2011
Assistant Professor	Aug 2008 to July 2014

### Department of Information Science, University of North Texas

Assistant Professor,	Aug 2007 to July 2008
Coordinator, Digital Imaging Track	Aug 2007 to July 2008

### iSchool at the University of Illinois at Urbana Champaign

Instructor, Undergraduate Minor	Aug 2006 to July 2007
Research Assistant,	August 2003-July 2004
Teaching Assistant, Graduate and Undergraduate	2001-2002, 2002-2003, 2005-2006

## **Honors and Awards**

1. Nominated for the College of Communication and Information Research Award 2020.
2. Awarded College of Communication and Information Service and Outreach Award for 2018-2019.
3. Paper nominated for the best paper award at the 15<sup>th</sup> International Conference of Open Source System, 2019.
4. Nominated by the Dean, College of Communication and Information, for Faculty Appreciation Week, February 2019 <https://faw.utk.edu/2019/02/06/vandana-singh/>
5. Selected for the UTK Leadership Institute, 2017-2018
6. Winner of the Competition at IISE Annual Conference, Data Analytics, and Information Systems Division - Co-Advised a team of students in ISE at UTK to enter a team competition for Mobile Apps. "Speak For Myself" - First Place in May 2018 IISE CIS Division Mobile App competition
7. Recognized by Office of Community Engagement & Outreach, University of Tennessee recognizes 50 Partnerships that Make a Difference (<http://engagement.utk.edu/wp-content/uploads/sites/7/2015/01/117401-Carnegie-Partnershipv9.pdf-2.pdf>): Rural Library Professionals Program [Spring 2015].
8. One of the Top Five Papers at IFLA 2011, Mehra, B., Black, K., Singh, V., and Nolt, J. (2011). Mapping the Education of Rural Librarians' Technology Literacy and Management Training: Use of Mixed Data Collection Methods in the ITRL Program.
9. Best Conference Paper ALISE 2011. "What is the Value of LIS Education? A Qualitative Analysis of the Perspectives of Tennessee's Rural Librarians. Bharat Mehra, Kimberly Black, Vandana Singh, & Jenna Nolt
10. Junior Faculty Fellow to Provost, 2010 nominated and selected by School of Information Sciences and College of Communication and Information, July 2010
11. Innovative Technology Award 2010, given by College of Communication and Information, University of Tennessee May 2010
12. Outstanding Assistant Professor 2010 for the year given by School of Information Sciences, College of Communication and Information, University of Tennessee, May 2010
13. Scholar of the Week, University of Tennessee, Week of 7/11/09.
14. Best Note of CSCW 2008 - Singh, V. and Twidale, M., "The Confusion of Crowds: non-dyadic help interactions" Short Paper Computer Supported Cooperative Work Conference, 2008.
15. Best research paper 2006 of the mini-track at Hawaii International Conference on System Sciences – 39 2006
16. Lucile-Huntington Fellowship by the Graduate School of Library and Information Science at UIUC 2004-2005.
17. Dutch Government Fellowship for masters' program Wageningen University (1999-2000)

18. President of the International Students Organization at Wageningen University, the Netherlands. (2000)
19. Speaker at the Graduation Ceremony for masters' students at Wageningen University, 2000
20. National Debate Champion in India for two years (1996 & 1998)
21. President's Award for Best Voluntary Worker of the State for National Service Scheme (1997)

## **PUBLICATIONS, GRANTS & PRESENTATIONS**

### **Refereed Journal Articles**

- Payne, A. & **Singh, V.** (2010). Open Source Use in Libraries. *Library Review* 59(9), 708-717.
- Mehra, B., **Singh, V.**, and Parris, H. (2010). Open Source Software Collaborations in Tennessee's Regional Library System: An Exploratory Study. *Library Review*, 59(9), 690-701.
- Mehra, B., Black, K., **Singh, V.**, and Nolt, J. (2011). What is the Value of LIS Education? A Qualitative Analysis of the Perspectives of Rural Librarians in Southern and Central Appalachia [[Best Paper for the 2011 Association for Library and Information Science Education \(ALISE\) Annual Conference](#)]. *Journal of Education for Library and Information Science*, 52(4), 265-278.
- Mehra, B., Black, K., **Singh, V.**, and Nolt, J. (2011). Collaboration between LIS Education and Rural Libraries in the Southern and Central Appalachia: Improving Librarian Technology Literacy and Management Training [Brief Communications and Research in Progress]. *Journal of Education for Library and Information Science*, 52(3), 238-247.
- Singh, V.**, and Mehra, B. (2012). Strengths and Weaknesses of the Information Technology Curriculum in Library and Information Science Graduate Programs, *Journal of Librarianship and Information Science*, as DOI:10.1177/0961000612448206 45(3), 219-231.
- Singh, V.** (2012). Experiences of Migrating to Open Source Integrated Library Systems, *Information Technology, and Libraries*, Volume 34 (4), 36-53.
- Singh, V.**, and Holt, L. (2012). Learning and Best Practices for Learning in Open Source Software Communities, *Computers, and Education* 63 (April 2013), 98-108.  
<http://www.sciencedirect.com/science/article/pii/S0360131512002862>
- Singh, V.** (2012). Using Open Source Software in Libraries: Implications for Social Justice. *Journal of Qualitative and Quantitative Methods in Libraries*, Volume 2, June 2013 Issue.
- Holt, L., and **Singh, V.** (2012). "Self-direction and Open Source Software Forum Participants: Characteristics and Relationships" *International Journal of Self-Directed Learning*, Volume 9, Number 2, Fall 2012, Page 28-43
- Hendrickson, E., **Singh, V.**, and Redmond, C (2013). iPerceive: Platform Priorities and Workplace Innovation in America's Consumer Magazine Industry. *Journal of the International Symposium on Online Journalism*.
- Singh, V.** (2013). Why Open Source ILS? Librarians Share their Reasons and Experiences. *LIBRI International Journal of Libraries and Information Services*, 63 (3): 206-219.

- Singh, V.** (2013). The nuts and bolts of migration to open source ILS: Experiences and Recommendations from the librarians. *LIBRI International Journal of Libraries and Information Services*, Volume 63, Issue 2, Pages 108–122, ISSN (Online) 1865-8423, ISSN (Print) 0024-2667, DOI: [10.1515/ibri-2013-0009](https://doi.org/10.1515/ibri-2013-0009), May 2013
- Mehra, B., Black, K., **Singh, V.**, Nolt, J., Williams, K.C., Simmons, S., and Renfro, N. (2014). The Social Justice Framework in the Information Technology Rural Librarian Master's Scholarship Program: Bridging the Rural Digital Divides. *Journal of Qualitative and Quantitative Methods in Libraries, Special Issue 2014 Social Justice, Social Inclusion pp 5 -11*  
[http://qqml.net/Special\\_Issue\\_2014\\_Social\\_Justice\\_Social\\_Inclusion.html](http://qqml.net/Special_Issue_2014_Social_Justice_Social_Inclusion.html)
- Mehra, B., and **Singh, V.** (2014). Recruitment Methods in the Information Technology Rural Librarian Master's Scholarship Program (Part I and Part II): Implications of Social Justice in the Southern and Central Appalachian Region *Journal of Qualitative and Quantitative Methods in Libraries, Special Issue 2014 Social Justice, Social Inclusion pp 13-22*  
[http://qqml.net/Special\\_Issue\\_2014\\_Social\\_Justice\\_Social\\_Inclusion.html](http://qqml.net/Special_Issue_2014_Social_Justice_Social_Inclusion.html)
- Singh, V.** (2014). Expectations versus Experiences: Librarians using Open Source Integrated Library Systems. *The Electronic Library, Volume 32 Issue 5, 10 pages*
- Singh, V.** (2017). Open source integrated library systems migration: Librarians share the lessons learned. *Journal of Librarianship and Information Science*. Volume 51, Issue 2 pages 346-355  
<https://doi.org/10.1177/0961000617709059> - *Featured Article for July 2019 issue of Informed Librarian Online*.
- Singh, V.** (2017). Open Source Software Use in Libraries: Implications for Social Justice. *Qualitative and Quantitative Methods in Libraries*, [Special Issue], p. 59-68, June 2017. ISSN 2241-1925. Available at: <http://qqml-journal.net/index.php/qqml/article/view/211>
- Singh, V.** (2017). A Case Study of Migration to an Open Source ILS: Partnership among State Libraries. *Qualitative and Quantitative Methods in Libraries*, [Special Issue], p. 49-57, June 2017. ISSN 2241-1925. Available at: <http://qqml-journal.net/index.php/qqml/article/view/212>
- Mehra, B., and **Singh, V.** (2017). Recruitment Methods in the Information Technology Rural Librarian Master's Scholarship Program (Part I and Part II): Implications of Social Justice in the Southern and Central Appalachian Region. *Qualitative and Quantitative Methods in Libraries*, [Special Issue], p. 13-22, June 2017. ISSN 2241-1925. Available at: <http://qqml-journal.net/index.php/qqml/article/view/207>
- Mehra, B., Black, K., **Singh, V.**, Nolt, J., Williams, K.C., Simmons, S., and Renfro, N. (2017). The Social Justice Framework in the Information Technology Rural Librarian Master's Scholarship Program: Bridging the Rural Digital Divides. *Qualitative and Quantitative Methods in Libraries*, [Special Issue], p. 5-11, June 2017. ISSN 2241-1925. Available at: <http://qqml-journal.net/index.php/qqml/article/view/206>
- Singh, V.** (2019). Personas and Scenarios as a Methodology for Information Sciences. *Qualitative and Quantitative Methods in Libraries*, [Special Issue], v. 7, n. 1, p. 123-134, Feb. 2019. ISSN 2241-1925. Available at: <http://qqml-journal.net/index.php/qqml/article/view/462>
- Singh, V.**, and Thurman, A. (2019). Definitions of Online Learning: An investigation into the evolution of online learning definitions (1993- 2018). *American Journal of Distance Education*. Volume 33 - Issue 4, pages: 289-306. <https://doi.org/10.1080/08923647.2019.1663082>

**Singh, V.** (2019). Applying Participatory Action Approach to Integrating Professional Librarians into Open Source Software Communities. *Journal of Librarianship and Information Science*. Volume 52 Issue: 2, page(s): 541-548 <https://doi.org/10.1177/0961000619836724>

Mehra, B., Sikes, E. S., and **Singh, V.** (2019). Scenarios of Health Engagement Experiences and Health Justice in Rural Libraries. *International Journal of Information, Diversity, & Inclusion* (Special Issue: Health Justice. Edited by Paul Jaeger) Volume 3, Issue 3 Part 1 <https://doi.org/10.33137/ijidi.v3i3.32963>

Mehra, B., Sikes, E. S., and **Singh, V.** (2019). Scenarios of technology use to promote community engagement: Overcoming marginalization and bridging digital divides in the Southern and Central Appalachian rural libraries. *Information Processing & Management*, Volume 57, Issue 3 2019, ISSN 0306-4573, <https://doi.org/10.1016/j.ipm.2019.102129>

#### Refereed Journal Articles under Review

**Singh, V.**, Bongiovanni, B. A, and Brandon, W. (2020). Dealing with Discrimination and Supporting Each Other in a Safe Space: Insights into women-focused online communities of Open Source. *Journal of Systems and Software*, special issue on Global Software Engineering. (Under review after Revise and Resubmit).

**Singh, V.**, Bongiovanni, B. A, and Brandon, W. (2020). Codes of Conduct in Open Source Software – For Warm and Fuzzy Feelings or Equality in Community? *Software Quality Journal* special issue on Software Quality in Free/Open Source Software. (Under Review after Revise and Resubmit).

**Singh, V.**, and Brandon, W. (2020). How do women of Open Source Software support each other? *ACM Transactions on Social Computing*. (Under Review after being selected for Fast Track publishing).

**Singh, V.**, Thurman, A., and Bongiovanni (2020). A Systematic Literature Review of Online Learning (1998-2018). *American Journal of Distance Education*. (Under Review).

#### Peer-reviewed Book Chapters

Mehra, B., and **Singh, V.** (2017). Library Leadership-In-Training as Embedded Change Agents to Further Social Justice in Rural Communities: Teaching of Library Management Subjects in the ITRL and ITRL2. In Nicole A. Cooke and Miriam E. Sweeney (Eds.), *Teaching for Justice: Implementing Social Justice in the LIS Classroom*. Sacramento, CA: Library Juice Press.

Mehra, B., **Singh, V.**, Hollenbach, N., and Partee II, R.P. (2017). “A Community Informatics Model in ICT Use to Train Rural Librarians in the Southern and Central Appalachian Region as Change Agents in the 21 Century” Book Chapter proposal in *Rural and Small Public Libraries: Challenges and Opportunities* (Advances in Librarianship book series). Bingley, United Kingdom: Emerald Group Publishing.

#### Peer-reviewed Conference Proceedings

Jones, M. C., Medina, K. E., Rao, A., Rathi, D., **Singh, V.** (2004). I-Vote: an audience voting system. Student competition paper. CHI extended abstracts on human factors in computing systems, April 2004

Rathi, D., **Singh, V.**, Gebauer, J., (2004). Ubiquitous Computing for Knowledge Management. *Proceedings*

*of Knowledge Sharing and Collaborative Engineering (KSCE 2004)*, IASTED, November 2004.

Rathi, D., Twidale, M., **Singh, V.** (2005). Adapting Knowledge Management Systems for Collaborative Technical Problem Solving. *International Conference on Knowledge Management (ICKM)*, ASIST, October 2005.

**Singh, V.**, Twidale, M., Rathi, D., (2006). Open Source Technical Support – A look at Peer Help Giving. *Proceedings of Hawaii International Conference on System Science (HICSS – 39)*, IEEE, January 2006. "[Best Paper of the Mini-Track](#)".

Rathi, D., Twidale, M. B. **Singh, V.**, and Jones, M. C. (2007). Your Mark is My Dirt: Impact of Email Signatures on Decision Making, *Proceedings of 9th International Conference on Decision Support Systems*, January 2-4, 2007, India.

**Singh, V.**, and Twidale, M.B. (2008). The Confusion of Crowds: non-dyadic help interactions. *Proceedings of ACM Conference of Computer Supported Cooperative Work 2008*, San Diego, CA. Winner of "[Best Note of CSCW 2008](#)" Award

Rathi, D., Twidale, M. B., **Singh, V.**, and Bisen, A. (2008). Users = Designers: A Participatory Approach in Designing Knowledge Management System. *Proceedings of International Conference on Knowledge Management (ICKM)*, October 2008.

**Singh, V.**, (2008). Modes of Technical Support in Open Source Software – Peer to Peer Digital Knowledge Creation, Sharing and Re-Use" Poster, *Proceedings of American Society for Information Science and Technology Annual Conference*, October 2008, Columbus, Ohio

**Singh, V.**, Twidale, M.B., and Nichols, D.M. (2009). Users of Open Source Software: What are they contributing? *Proceedings of Hawaii International Conference on System Science (HICSS – 42)*, IEEE, January 2009.

**Singh, V.** & Johri, A. (2010). Newcomer Participation in Cyberlearning Environments: Lessons from Open Source Communities. Poster, National Science Foundation Engineering Education Programs Awardees Conference. January 31- February 2, 2010. Reston, Virginia.

**Singh, V.** (2010) Comparison of Technical Support for Open Source Software and Proprietary Software. Poster, *Proceedings of American Society for Information Science and Technology Annual Conference: Navigating Streams in an Information Ecosystem*, October 22-27, 2010, Pittsburgh, PA.

Mitra, R., **Singh, V.**, and Johri A., (2011) Cyberlearning Ecosystem - Users, Technology, and Tools. Poster, *Proceedings of I-Conference, 2011*, Seattle, Washington 2011

**Singh, V.**, Johri, A., and Mitra, R. (2011). Types of Newcomers in an Online Developer Community. Interactive Paper, *Proceedings of the Computer Supported Cooperative Work 2011*, (Shanghai, China), ACM, 2011

Mehra, B., Black, K., **Singh, V.**, and Nolt, J. (2011). Mapping the Education of Rural Librarians' Technology Literacy and Management Training: Use of Mixed Data Collection Methods in the ITRL Program. *Proceedings of the World Library and Information Congress: 77th International Federation of Library Associations and Institutions General Conference and Assembly*. [In top 5 papers](#). [Library Theory and Research Section and Statistics and Evaluation Section], 13-18 August 2011, San Juan, Puerto Rico.

- Singh, V.,** Kathuria, S. & Johri, A. (2012). Newcomer integration and learning in technical support communities for Open Source Software. Interactive Paper, *Proceedings of ACM Conference on Computer Supported Collaborative Work*, Feb. 11-15, 2012, Seattle, WA.
- Mehra, B., Black, K., **Singh, V.**, Nolt, J., Williams, K.C., Simmons, S., and Renfro, N. (2012). Computer-Enabled Innovations in the Information Technology Rural Librarian Master's Scholarship Program: Bridging Rural Digital Divides in the Southern and Central Appalachia, *Proceedings of the 57<sup>th</sup> Indian Library Association Annual Conference*, 23-25 February 2012, Mangalore, Karnataka.
- Boehm, M., and **Singh, V.** (2012) Citizen Users and Interactivity on Government Environmental Agency Web Pages: An analysis of Colony Collapse Disorder Information. *Proceedings of American Society for Information Science and Technology*, October 26- 31, 2012, Baltimore, MD.
- Singh, V.** (2012). Newcomer Integration and Learning in Technical Support Communities for Open Source Software. *Proceedings of the ACM International Conference on Supporting Group Work (GROUP '12)*, 26-30 October 2012, Sanibel Island, FL, 65-73.
- Normore, L. and **Singh, V.**, (2012) Mental Models: Setting User Expectations for ICTs. Poster, *Proceedings of I-Conference, 2012*, February 7 -10, 2012 Toronto, Canada
- Mehra, B., **Singh, V.**, Mitchell, C., Williams, K. C., Simmons, S., and Renfro, N. (2012). Empowering Rural Librarians as Change Agents in the 21<sup>st</sup> century: Development of Community-Based Technology Literacy and Management Outcomes in the Southern and Central Appalachia (Poster). *World Library and Information Congress: 78th International Federation of Library Associations and Institutions (IFLA) General Conference and Assembly*, August 11-17, 2012, Helsinki, Finland.
- Singh, V.** and Holt, L. "Online Technical Support: How It Works and Why It Fails?" *2013 46th Hawaii International Conference on System Sciences*, Wailea, Maui, HI, 2013, pp. 3187-3196. DOI: 10.1109/HICSS.2013.429
- Singh, V.** (2013). A Case Study of Migration to an Open Source ILS: Partnership among State Libraries. *Proceedings of the Qualitative and Quantitative Methods in Libraries International Conference (QQML 2013)*, 3 – 6 June 2013, Rome, Italy.
- Singh, V.** (2013) "Evaluating and Improving an Information Portal for Open Source Integrated Library Systems" *Proceedings of the 15<sup>th</sup> International Conference on Human-Computer International 2013 (HCI 2013)*, 21-26 July 2013, Las Vegas, USA.
- Singh, V.**, (2013). "Challenges of Open Source ILS Adoption" Poster, *Proceedings of 76th Annual Meeting of the Association for Information Science and Technology*, Beyond the Cloud: Rethinking Information Boundaries, November 1-6, 2013, Centre Sheraton, Montreal, Quebec, Canada
- Mehra, B., and **Singh, V.** (2015). A Social Justice Framework to Further Community Engagement in Pakistan's Information Management and Library Professions, *Proceedings of the International Conference on Information Management & Libraries*, Department of Information Management, University of Punjab, Quaid-i-Azam Campus, Lahore-Pakistan, from 10-13 November 2015.
- "Speak For Myself" Co-Advised a team of students in ISE at UTK to enter a team competition for Mobile Apps. [Winner of the competition](#) - First Place in May 2018 Institute of Industrial and System Engineers, Computer and Information Systems Division Mobile App competition.
- Mehra, M., and **Singh, V.** (2018). "A juried panel, "Library leadership-in-training as embedded change agents to further social justice in rural communities: Teaching of library management subjects in the ITRL

and ITRL2. *Association of Library and Information Science Education*, February 6- 9 Denver, Colorado 2018.

- Mehra, M., **Singh, V.**, and Sikes, E.S. (2018). A works-in-progress poster, “Assessment of rural library professionals’ role in community engagement in the Southern and Central Appalachian region: Mobilization from change agents to community anchors (CA2CA@SCA-RL).” *Association of Library and Information Science Education*, February 6- 9 Denver, Colorado 2018.
- Mehra, B., Sikes, E. S.; Barrett, C.; **Singh, V.** (2018). Information technology use behaviors of community-engaged rural librarians: A future beyond the theory-practice discourse to integrate impact. Short paper. *Association for Information Science and Technology (ASIS&T) Special Interest Group Information Needs, Seeking and Use (SIGUSE) Symposium*, in Vancouver, Canada, November 10-14, 2018.
- Hank, C., **Singh, V.**, and Simone, S. (2019). Social Media Policy Analysis for Primary and Secondary Public Schools and Districts. I-Conference Poster, *I-Conference*, 2019. 4 pages
- Mehra, B., Sikes, E. S. and **Singh, V.** (2019), An exploratory gis prototype to map community engagement in the Southern and Central Appalachian rural libraries. *Proceedings of the Association for Information Science and Technology*, 56: 735-737. DOI:[10.1002/pr2.154](https://doi.org/10.1002/pr2.154)
- Mehra, B., Sikes, E.S., **Singh, V.** (2019). Scenarios of Health Engagement Experiences and Health Justice in Rural Libraries. *Medical Library Association Conference: Elevate*. Chicago, Illinois. May 3-8, 2019
- Mehra, B., **Singh, V.**, and Sike, E.S. (2019). A Model of Community-Engaged Scholarship Across “Institutional Borders” to Assess the Role of Rural Libraries in Community Engagement in the Southern and Central Appalachia. *Proceedings of the 47th Annual Conference of the Canadian Association for Information Science*, 2019, University of British Columbia, Vancouver, Canada from June 3- 6, 2019
- Singh, V.** (2019) “Integrating Professional Librarians into Open Source Software Communities” Annual conference of the *Association of Library and Information Science Education*, Juried panel at ALISE 2019, Knoxville.
- Singh, V.** (2019). “What do global researchers mean when they say “Online Learning?” The annual conference of the *Association of Library and Information Science Education*, Peer-reviewed abstract, Work in Progress poster at ALISE 2019, Knoxville.
- Singh, V.** (2019). Women-only spaces of open source. In *Proceedings of the 2nd International Workshop on Gender Equality in Software Engineering (GE '19)*. IEEE Press, Piscataway, NJ, USA, 17-20. DOI: <https://doi.org/10.1109/GE.2019.00010>
- Singh, V.** (2019). Women participation in open source software communities. In *Proceedings of the 13th European Conference on Software Architecture - Volume 2 (ECSA '19)*, Laurence Duchien, Catia Trubiani, Riccardo Scandariato, Raffaella Mirandola, Elena Maria Navarro Martinez, Danny Weyns, Anne Koziolok, Patrizia Scandurra, and Clément Quinton (Eds.), Vol. 2. ACM, New York, NY, USA, 94-99. DOI: <https://doi.org/10.1145/3344948.3344968>
- Singh, V.**, and Brandon W. (2019) Open Source Software Community Inclusion Initiatives to Support Women Participation. In: Bordeleau F., Sillitti A., Meirelles P., Lenarduzzi V. (eds) *Open Source Systems. OSS 2019. IFIP Advances in Information and Communication Technology*, vol 556.



Springer, Cham. [Nominated for Best Paper](https://link.springer.com/chapter/10.1007/978-3-030-20883-7_7). [https://link.springer.com/chapter/10.1007/978-3-030-20883-7\\_7](https://link.springer.com/chapter/10.1007/978-3-030-20883-7_7)

**Singh, V.**, and Brandon, W. (2020). How do the women of Open Source support each other? An investigation into women-focused online discussion forums. *Proceedings of 53<sup>rd</sup> Hawaii International Conference on System Sciences*, January 7 - 10, 2020, Maui, Hawaii.

#### Articles published in non-referred journals

Mehra, B., Black, K., **Singh, V.**, Renfro, N., Reynolds, D., Simmons, S., & Williams, K. C. (2010). Rural Library Professionals as Change Agents in the 21st Century: Integrating Information Technology Competencies in the Southern and Central Appalachian Region. *Tennessee Libraries*.

Black, K., Mehra, B., and **Singh, V.** (2011). Scope of Broadband Education and Deployment in Rural Libraries: Desperately-Seeking Partners in a Grant Proposal. *Tennessee Libraries*. URL: <http://tnla.org/displaycommon.cfm?an=1&subarticlenbr=428>.

#### GRANTS (13 in number, totaling up to 3 million dollars)

##### Completed

- 2007- 2008. The Texas Course Redesign Learning Object Repository: Research and Development for a Production System. Funded by: Texas Higher Education Coordinating Board **V. Singh, Co-PI**. Funds \$250,000
- 2007 - 2008. Technical Support in Open Source Software – Peer to Peer Digital Knowledge Creation, Sharing, and Re-Use Funded by the University of North Texas under Junior Faculty Research Grant. **V. Singh, PI** (\$10,000)
- 2009 - 2011 Increasing Biodiversity Information Sources (IBIS) Principal Investigator: C. Tenopir. **Co-Principal Investigators:** S. Allard, L. Normore, **V. Singh**. Funded by: USGS – National Biological Information Infrastructure \$498,518
- 2009 - 2012 Identifying Practices and Tools to Promote newcomer Participation in Cyberlearning Environments. Funded by: NSF IEEE-Exploratory Grant **V. Singh, PI** (\$200,000)
- 2009 - 2013 Comparison of Technical Support for Open Source vs Proprietary Integrated Library Systems Funded by IMLS Early Career Grant \$321,178 **V. Singh, PI**
- 2009 - 2013 Information Technology Competencies for Librarians Funded by IMLS Award Amount: \$567,660 Dr. Bharat Mehra, (PI), Dr. Kimberly Black and **Dr. V. Singh, Co-PIs**
- 2012 – 2013 iLearn? Magazine platform production and adaptive learning, Funded By Office of Research, University of Tennessee, Co-PIs **V. Singh** and Elizabeth Hendrickson \$3,600
- 2012-2013 Deans Summer Research Grant \$2000
- 2009 - 2014 “ScienceLinks2” PhD. Principal Investigator: Suzie Allard (SIS), Co-Principal Investigators: Sally McMillan (Advertising/PR), and Carol Tenopir (SIS). Academic Mentor **V. Singh**, L. Normore. Funded by: IMLS \$711,727.

- 2014-2015 Deans Summer Research Grant \$2000
- 2012 - 2016 Rural Library Professionals as Change Agents in the 21<sup>st</sup> Century: Integrating Information Technology Competencies in the Southern and Central Appalachian Region (Part II) (ITRL2) Funded by Institute of Museum and Library Services, *Laura Bush 21<sup>st</sup> Century Librarian Program*, B. Mehra, PI, and **V. Singh, Co-PI**. (\$478,258)
- 2016-2017 Assessment of Rural Librarians' Role in Community Engagement in the Southern & Central Appalachian Region: Mobilization from Change Agents to Community Anchors (CA2CA@SCA-RL) Pre-proposal submitted to IMLS, August 2016, B. Mehra. & **V. Singh (Co-PI)** (\$48,758)
- 2018 – 2019 Online learning fusion grant Funded by UTK, **V. Singh** and Shteynberg, G. (\$10,000)

### **Submitted, not funded**

- **Singh, V. (PI)** and Hendrickson E. (Co-PI) Media Creators Adapting to Change: Management of Lifelong Learning in Technology. National Science Foundation. 2013. \$407,330.
- **V. Singh, (PI)** & Twidale, M.B. (Co-PI) Assessment and Evaluation of Usability of Open Source Software for Libraries. Pre-proposal submitted to IMLS, February 2017, \$469,699.
- **V. Singh, (PI)**, Twidale, M.B. & Mehra, B. (Co-PI) Developing a Road Map to Integrate Library Professionals in the Design, Development, Tailoring, and Support of Open Source Software (OSS) through Participatory Action Research. \$371,658 2017- 2018.

### **TEACHING EXPERIENCE**

#### **Courses Developed and Taught at the University of Tennessee (Fall 2008 – to date)**

1. **INSC 585:** Information Technologies
2. **INSC 581:** Information Networking Applications
3. **INSC 598:** Web Design
4. **INSC 590:** Web Development Using Content Management Systems, Summer 2015
5. **INSC 586:** Usability Testing and Methods, Fall 2018
6. **INSC 514:** Foundations of Information Technology, Fall 2019
7. **INSC 591:** Independent Study, **30** since Fall 2008

#### **Courses taught at the University of North Texas (Fall 2007 – Spring 2008)**

SLIS Topics on Digital Imaging for Information Professional

#### **Courses taught at the University of Illinois Urbana-Champaign**

Undergraduate Courses

1. **LIS 201** Information, Technology and Organizations
2. **LIS 202** Social Aspects of Information Systems

3. **LIS 210** Computing in the Humanities
4. **LIS 290** Programming Web Mashups (Developed)

#### Graduate Courses

1. **LIS 310** Information, Organization and Access (*on Campus and Online*)
2. **LIS 320** Libraries, Information, and Society

### **DISSERTATION AND THESIS COMMITTEES**

#### **Thesis Supervised**

Meredith Boehm “Analysis of CCD Information on WWW: Complex Environmental Problems and Web Information Quality” Thesis defended May 2012.

#### **Membership on graduate degree candidates committees**

#### **Doctoral Dissertation Committees**

1. Jason Rieger, Ph.D. Program College of Communication and Information, UTK
2. Lei Wu, Ph.D. Program College of Communication and Information, UTK
3. Chip Howley, Ph.D. Program in Computer Science (EECS department), UTK
4. Kelly Robinson, Ph.D. Program in Instructional Technology, UTK
5. Rosie Sasso, Ph.D. Program in Instructional Technology, UTK
6. Frank Ailes, Ph.D. Program College of Communication and Information, UTK
7. Iman Tahamtan, Ph.D. Program College of Communication and Information, UTK

#### **Doctoral Committee for Comprehensive Exam:**

1. Lei Wu, Ph.D. Program College of Communication and Information, UTK
2. Jason Rieger, Ph.D. Program College of Communication and Information, UTK
3. Rosie Sasso, Ph.D. Program in Instructional Technology, UTK
4. Kelly Robinson, Ph.D. Program in Instructional Technology, UTK

#### **ePortfolio Committees**

Janelle Cleaves, 2016, Kymberlee Byrge, 2016, Kathrine Chalman, 2016, Michael Arrington, 2017, Kathleen Tyree, 2017, Chelsea Seddon, (chair) 2018, Amy Esgh, (chair) 2019, Susannah Choate (chair), 2018, Sarah Holt, 2019, Heather Doncaster (chair), 2019, Timothy Holmes (chair), 2019

#### **Master’s Thesis Committee Member**

1. Sarah McClung, School of Information Sciences, Advisor: Dr. Suzie Allard
2. Scott E. Sikes, School of Information Sciences, Advisor: Dr. Bharat Mehra
3. Kimberly Cupp, School of Information Sciences, Advisor: Dr. Peiling Wang

### **SCHOOL, COLLEGE AND UNIVERSITY SERVICE**

#### **School of Information Sciences**

#### ***Director of Undergraduate Studies***

From 2016 to 2019, I led the efforts to develop, propose, and offer a bachelor’s degree program at the School of Information Sciences. I served as the inaugurating Director of the Undergraduate Studies from 2017 – 2019. In 2019, SIS completed all the stages of program approval and launched the bachelor’s

program in Fall 2019. This is the first degree of its kind in the state of Tennessee. The process of getting this approval, led by me included:

- Feasibility study for the undergraduate major
- Market research – state of Tennessee policies, jobs, employers
- Stakeholder research – surveyed target students, faculty and employers
- Collecting letters of support from internal and external stakeholders
- Coordination and collaboration with UTK, UT System and Tennessee Higher Education Commission representatives
- Collaboration with the SIS faculty to develop and approve the new curriculum – this included 21 new courses, two new concentrations, and revisions of several courses.
- Leading the program approval at the school, college, and University undergraduate committees, over 3 years.
- Getting program approval from an external evaluator, working on their feedback to improve the program proposal
- Getting the UTK Board of Trustees, approval
- Getting the program approval from the Tennessee Higher Education Commission in Spring 2019.

*Coordinator*, Undergraduate Information Science, and Technology Minor UT School of Information Sciences 2008-2009, 2009-2010, 2010-2011, 2016-2017

*Chair*, Comprehensive Examination Committee, UT School of Information Sciences, Fall 2010, Fall 2013

*Chair*, Ad hoc Physical Facilities and Technology Chapter, Committee on Accreditation Report, UT

*Chair*, CRISP Committee on Physical Facilities and Technology, 2013-2014, 2014-2015

*Chair*, Peer Teaching Evaluation for Dr. Devendra Potnis, Spring 2015

*Chair*, Task Force for Planning for an Undergraduate Major, 2016 – 2017, 2017-2018, 2018-2019

*Co-Chair*, Faculty Search Committee, UT School of Information Sciences, 2012-2013

*Member*, Student Affairs Committee, UT School of Information Sciences, 2008-2009, 2009-2010, 2010-2011

*Member*, Faculty Search Committee, UT School of Information Sciences, 2009-2010, 2010-2011, 2018-2019

*Member*, Comprehensive Examination Committee, UT School of Information Sciences, Fall 2009, Summer 2010, Spring 2011, Fall 2009, Summer 2010, Spring 2012, Summer 2013, Fall 2014, Fall 2016, Spring 2015, Fall 2016, Spring 2017

*Member*, Ad hoc Student Chapter, Committee on Accreditation Report, UT School of Information Sciences, 2008-2009

*Member*, Ad hoc Data Management Task Force for Accreditation, 2014-2015, 2015-2016

*Member*, Faculty Affairs Committee, UT School of Information Sciences, 2011-2012 (Spring), 2012-2013, 2013 – 2014, 2014-2015, 2015-2016, 2019-2020

*Member*, Alternatives to Comprehensive Examination Committee, UT School of Information Sciences, 2014-15

*Member*, E-portfolio Revision Committee, UT School of Information Sciences, 2014-2015

*Member*, Peer Teaching Evaluation for Dr. Kimberly Douglass, Spring 2015

*Member*, Task Force for Planning for an Undergraduate Major, Spring 2016

*Member*, Recruitment & Engagement Task Force, 2016-2017

*Member*, SIS Administrative Committee, 2017-2018, 2018-2019

*Chair*, Undergraduate Task Force, 2016-2017

*Chair*, Undergraduate Program Committee, 2017-2018, 2018-2019

*College of Communication and Information*

*Chair*, Undergraduate Committee, College of Communication and Information, 2017-2018, 2018-2019

*Member*, Faculty Affairs Committee, College of Communication and Information, 2014-2015, 2015-2016, 2019-2020

*Member*, Research Advisory Group, College of Communication and Information Symposium, 2014-2015, 2017-2018

*Member*, Undergraduate Affairs Committee UT College of Communication and Information, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2016-2017, 2017-2018, 2018-2019

*Member*, Convergence Lab Committee, UT College of Communication and Information, 2008-2009, 2009-2010

*Member*, Ph.D. Task Force, UT College of Communication and Information, 2010-2011

*Member*, Convergence Lab Committee, College of Communication and Information University of Tennessee 2008-2009

*Member*, Special Task Force for Ph.D. program revision, College of Communication and Information University of Tennessee 2010-2011, 2011-2012

*University of Tennessee, Knoxville*

*Junior Faculty Fellow* – 2010-2011, 2011-2012, 2012-2013, 2013-2014

*Senator* – Faculty Senate 2014-2015, 2015-2016, 2016-2017, 2016-2017

*Member*, Faculty Senate Committee on Library Services and Information Technology, 2014-2015, 2015-2016, 2016-2017

*Member*, Research Council, 2016-2017

*Member*, Undergraduate Council, 2017-2018, 2019-2020

*Member*, Undergraduate Council 2017-2018, 2018-2019, 2019-2020 Curriculum Committee, Research Committee

*Member*, UTK Appeals Committee, 2017-2018, 2018-2019, 2019-2020

## **PROFESSIONAL SERVICE**

*Articles Reviewer*, for Information Technology in Healthcare Track, Mini track: Cyberinfrastructure for Public Health and Health Services for Hawaii International Conference on System Sciences 2010

*Articles Reviewer*, for Internet and the Digital Economy Mini-Track: Open Movements: FLOSS, Open Contents, Open Access and Open Communities for Hawaii International Conference on System Sciences 2010, 2011, 2013

*Co-chair* for Internet and the Digital Economy Mini-Track: Open Movements: FLOSS, Open Contents, Open Access and Open Communities for Hawaii International Conference on System Sciences 2010, 2014

*Article Reviewer* for Journal of Education Library and Information Science, Fall 2010

*Article Reviewer* for Library and Information Science Research, Summer 2011

*Article Reviewer* for American Society for Information Science and Technology, Summer 2011

*Article Reviewer* for the Electronic Library, Spring 2012, Fall 2012

*Article Reviewer* for Computers and Education, Spring 2012, Fall 2012, 2013, 2018

*Article Reviewer* for I-Conference 2014

*Article Reviewer* for Computers and Human Behavior, 2013, 2014, 2015

*Article Reviewer* for American Journal of Distance Education, 2019

*Article Reviewer* for IEEE Software, 2019

*Co-chair* for Internet and the Digital Economy Mini-Track: Open Movements: FLOSS, Open Contents, Open Access and Open Communities for Hawaii International Conference on System Sciences 2014

*Reviewer* for Student Scholarships for Grace Hope Celebration of Women in Computing, 2018

*Reviewer* for Student Scholarships for Grace Hope Celebration of Women in Computing, 2019

*Organizing Committee member* for the track on Open Source Software at the Grace Hope Celebration of Women in Computing, 2018

*Organizing Committee member* for the track on Open Source Software at the Grace Hope Celebration of Women in Computing, 2019

*Organizing Committee member* for the track on Open Source Software at the Grace Hope Celebration of Women in Computing, 2020

*Editorial Board Member*, Public Library Quarterly, 2017-2018, 2018-2019, 2019-2020

*Program Committee Member*, 21st International Conference on Agile Software Development XP2020 - track "Diversity & Inclusion in Agile," 2020

*Member* – ACM –W North America committee for Student Chapters – 2020

## **PROFESSIONAL ACTIVITIES**

- Member of Diversity Scholar Network, National Center for Institutional Diversity (NCID) University

of Michigan – 2019 - current

- Panelist for National Science Foundation Panel for Engineering Education Research proposals submitted to Area One of the Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) announcement (NSF10-502). March 16-17, Washington D.C.
- Mini-Track Co-chair for Hawaii International Conference on System Sciences – In this role, I worked with other co-chairs to propose the mini-track, publicize the mini-track, solicit contributions, prepared a list of reviewers, organized the review process and wrote reviews and acceptance/rejection letters and will help in running the mini-track at the conference.
- Attended Web Wise 2010 - Imagining the Digital Future -Conference on Libraries and Museums in the Digital World March 3-5, 2010 Colorado Convention Center Denver, Colorado.
- Attended Proposal Writing Institute offered by UT Office of Research, Fall 2015

### **Current Professional Memberships**

- American Society for Information Science & Technology
- Association of Computing Machinery
- Association of Library and Information Science Educators