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Aditya Johri

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Current Position

Assistant Professor August 2007 – Present
Department of Engineering Education, College of Engineering
Virginia Polytechnic Institute and State University

Affiliated Faculty
Center for Human-Computer Interaction (CHCI) October 2007 – Present
Center for Innovated-based Manufacturing (CIbM) August 2010 – Present

Courtesy Appointment Faculty June 2009 – Present
Department of Industrial and Systems Engineering

Education

Ph. D. Stanford University
Learning Sciences and Technology Design July 2007
School of Education, Stanford University, Stanford, CA.
Dissertation: Understanding Impression Formation among Distributed Coworkers
Advisor: Pamela Hinds (Chair), Roy Pea (Co-Advisor), Shelley Goldman, Woody Powell

M.S. Georgia Institute of Technology
Information, Design, and Technology August 2002
School of Literature, Communication, and Culture, Georgia Tech, Atlanta, GA.
Thesis: Computers, Communication, Collaboration, and Cognition: Evaluating Learning on the Global Classroom Project
Advisor: TyAnna Herrington, Committee: Wendy Newstetter, Amy Bruckman, Peter McGuire

Master of Mass Communication, University of Georgia August 2000
College of Journalism and Mass Communication, University of Georgia, Athens, GA.

Bachelor of Engineering (Mechanical), Delhi College of Engineering June 1998
Delhi College of Engineering, Delhi, India.

Research and Teaching Interests

My current research and teaching focus on design and use of learning technologies, globally distributed and virtual collaboration, and design and use of technology for collaborative work. I use qualitative and ethnographic research methods to uncover interpretive aspects of situated practices and my current research sites include engineering work settings, student engineering teams, and, more recently, participation of engineers in international development projects. An examination of the mutually constitutive relationship between technology, organizing, and learning is the common thread in my research.

Other Research and Professional Appointments

Visiting Scholar Nov. 2010 – Jan. 2011
Information Systems Area, Indian School of Business, Hyderabad, India

Visiting Researcher September 2010
Technology and Emerging Markets Group, Microsoft Research Labs, India

Visiting Researcher July – August 2007
Department of New Media & Information Systems, University of Siegen, Germany

Research Intern June – August 2005
FXPAL, Palo Alto, CA

Systems Engineer June 1998 – July 1999
Wipro Systems, Bangalore, India

Honors and Awards

[A14] Selected to participate in National Academy of Engineering's Frontiers of Engineering Education (FOEE) Symposium, Nov. 13-16, Irvine, CA.

[A13] Recognized by the Virginia Tech's Office of the Vice President for Research as "Virginia Tech Scholar of the Week" for the week of June 27, 2011.

[A12] Participated in competitive NSF-sponsored 2011 Summer Research Institute for the Science of Socio-Technical Systems (CSST'11), June 5-9, Captiva Island, FL.

[A11] Best Note Award, ACM Conference on Computer Supported Cooperative Work (CSCW) 2011 (Top 1% paper, 3 out of 268 submissions)

[A10] Virginia Tech College of Engineering Dean's Award for Outstanding New Assistant Professor, 2010.

[A9] National Science Foundation Early CAREER Award, 2010-2014

[A8] New Faculty Fellow Award, National Academy of Engineering (CASEE), Frontiers in Engineering Conference, October 2008, Saratoga Springs, NY.

[A7] Awarded best faculty paper proposal at the "Cognition in the Rough" PDW, MOC Division, Academy of Management, 2008, for "The Socio-Cognitive Process of Newcomer Participation in Organizations." (Out of 54 proposals)

[A6] Invited Participant: American Society of Engineering Education forum on "Preparing Global Engineers," November 2008, Atlanta.

[A5] Invited Participant: NSF Engineering Education and Center's "Thought Leaders Workshop on the Future of Engineering Education," 2007.

[A4] 1st Place at Stanford Social e-Challenge Business Plan Competition, 2003 (Project: eImmunization).

[A3] Stanford University School of Education Quillen Fellowship & Research Award 2002-03.

[A2] MCAI MediaFest: Gold Award in Student Category for documentary short video, March 2002, (With Jason Civjan & Joel Gooch).

[A1] Kappa Tau Alpha National Honor Society for Journalism & Mass Communication Award for Academic Excellence (*Declined*).

Grants **(Total External Funding: $4, 939, 044; Personal Share: $1,240,371. PI on 6 NSF projects)**

[G13] NSF-DUE-TUES Type III. Collaborative Research: Deep Insights Anytime, Anywhere (DIA2) - Central Resource for Characterizing the TUES Portfolio through Interactive Knowledge Mining and Visualizations. Johri, A. (PI, 50%), Co-PIs: Ramakrishan, N. (40%) & Wang, G. A. (10%).
Total: $3.03 Million (Collaborative Institutions: Purdue University, Stanford University, Arizona State University & Virginia Tech); VT Share: $710, 036. 09/11-08/15.

[G12] NSF-DUE-TUES, Advancing Personalized Engineering Learning Via an Adaptive Concept Map, (Role: Co-PI; PI: Dr. Chris Williams, $198, 753).

[G11] Pratt Fellowship for International Research (VT College of Engineering), $6,000 (Role: PI)

[G10] Small Grant for Exploratory Research, Office of International Research, Education and Development, Virginia Tech, (Role: PI) $2,500

[G9] NSF-EEC (#0954034), Early CAREER Award, "Investigating Global Engineering Work Practices to Prepare 21st Century Engineers" (Role: PI, $406,987)

[G8] NSF-EEC (#0935143): Collaborative Proposal (IEECI Exploratory): Identifying Practices and Tools to Promote Newcomer Participation in Cyberlearning Environments (Role: PI, Total=$200K, VT=$99,401).

[G7] NSF-EEC (#0935124): Collaborative Research: Interactive Knowledge Networks for Engineering Education Research (Role: PI; Co-PI: G. Alan Wang; Total=$400K, VT=$132,474).

[G6] NSF-EEC (#0835892): AdWiki: Cultivating a Wiki-Based Online Community of Practice for Advising Engineering Students by Integrating Open Source Business Model and Social Psychology Principles (Role: PI, Co-PI: Jenny Lo, $99,927)

[G5] NSF-IIS (#0757540): Examining Creativity with IT in Engineering Design (X-CITED) (Role: PI, Co-PIs: Deborah Tatar, Vinod Lohani, $209,641).

[G4] ICTAS (#117443): Investigating VT Knowledge Networks, (Role: PI, Co-PI: G. Alan Wang, $35,000)

[G3] NSF-EEC (#0832002): Building Connections within the Engineering Education Research Community (PI: Lisa McNair, Role: Co-PI, $367, 154)

[G2] NSF-EEC BRIGE (#0824337): Investigating Engineering Student Identity Formation, (PI: Olga Pierrakos;

Role: External Consultant, $174,643)

[G1] Grant from MediaX at Stanford for the project "Finding Knowledge: Understanding Impression Accuracy in Distributed Work", Amount: $40,000, 2004-2005 (PI: Pamela Hinds)

Travel Fellowships

[T7] NSF-sponsored 2011 Summer Research Institute for the Science of Socio-Technical Systems (CSST'11), June 5-9, Captiva Island, FL.

[T6] National Academy of Engineering, CASEE FIE Fellowship, $1000

[T5] International Conference of Learning Sciences, Junior Faculty Consortium Travel Fellowship Grant, 2008, Amount: $1000

[T4] International Conference of Learning Sciences, Doctoral Consortium Fellowship, 2006. Amount: $500

[T3] Human-Computer Interaction Consortium, February 2006, Snow Mountain, Colorado, Amount: $500

[T2] International Travel Fellowship Grant, School of Education, 2005, Amount: $600

[T1] Computer Supported Collaborative Learning, Doctoral Consortium Fellowship, 2005. Amount: $2500

Publications **(1 edited book, 10 refereed journal papers, 2 refereed book chapters, and 55 peer-reviewed conference presentations (including 35 peer-reviewed papers in proceedings)**

Edited Volumes

[E3] *Cambridge Handbook of Engineering Education Research*, with Barbara Olds, under contract with Cambridge University Press, Expected publication: December 2012

[E2] "Representations and Engineering Learning," special issue of *Journal of Engineering Education*, with Barbara Olds and Wolff-Michael Roth, to appear in 2012

[E1] "Engineering and the Workplace," double theme issue of *Engineering Studies* "the Journal of the International Network of Engineering Studies, Publication: Dec. 2010 & August 2011

Under Review

[UR4] "Environmental Jolts: The Effect of External Events on Newcomer Participation in Open Source Online Communities", with Raktim Mitra and Oded Nov, under review at *Journal of the American Society for Information Science and Technology* (JASIST)

[UR3] "From a Distance: Impression Formation and Impression Accuracy Among Distributed Coworkers," under review at *Information Systems Journal*

[UR2] "Learning to Demo: The Sociomateriality of Newcomer Participation in Engineering Research Practice," under review at *Engineering Studies*

[UR3] "Harnessing Global Expertise: A Comparative Study of Expertise Profiling Methods for Online Communities, with Alan Wang, Xiaomo Liu, Patrick Fan, *Journal of Global Information Technology and Management*

Working Papers

[WP5] Johri, A., Williams, C. and Pembridge, J. "Creative Collaboration: A Case Study of the Role of Computers in Supporting Representational and Relational Interaction in Engineering Design Teams."

[WP4] "Designing and Sustaining Collective Intelligence in a Distributed Firm: Lessons from A Field Study," with Hon Jie Teo,

[WP3] "AdWiki: Using Action Research to Design and Implement a Socio-technical Infrastructure for Engineering Advising," Revise and Resubmit, with M. Dufour and J. Lo, *Advances in Engineering Education*

[WP2] "Sociomateriality of Digital Innovation," with Ulrike Schultze, Revise & Resubmit, *Organization Science*

[UR1] "Learning to Demo: Sociomateriality of Newcomer Participation in Engineering Research Practices," Under review at *Engineering Studies*

Peer Reviewed Articles in Journals

[J10] **Johri**, A. & Pal, J. (accepted). Capable and Convivial Design: A Framework for Designing Information and Communication Technology for Human Development. *Information Technology and Development*

[J9] **Johri**, A. (2011). The Sociomateriality of Learning Practices and Implications for Learning Technology. *Research in Learning Technology*, Vol. 11, Issue 3.

[J8] **Johri**, A., & Teo, H. (Forthcoming 2012). Assessing the Effectiveness of Open Organizing as Model for Re-designing Design Learning. *International Journal of Engineering Education.*

[J7] **Johri**, A. & Lohani, V. (2011). Increasing Engineering Representational Literacy through the Use of Pen-based Computing. *International Journal of Engineering Education*, Vol. 27, No. 5.

[J6] **Johri**, A. & Nair, S. (2011). The Role of Design Values in Information Systems Development for Human Benefit. *Information Technology and People,* Vol. 24, Issue 3.

[J5] Pipek, V., Wulf, V. & **Johri**, A. (2011). Bridging Artifacts and Actors: Expertise Sharing in Organizational Ecosystems. *Journal of Computer Supported Cooperative Work,* Online: July 27, 2011.

[J4] **Johri**, A. & Olds, B. (2011). Situated Engineering Learning: Bridging Engineering Education Research and the Learning Sciences. *Journal of Engineering Education*, 100(1):151-185.

[J3] **Johri**, A. (2011). Sociomaterial Bricolage: The Creation of Location-Spanning Work Practices by Global Software Engineers, *Information and Software Technology*, 53(9): 955-968.

[J2] **Johri**, A. (2010). Open Organizing: Designing Sustainable Work Practices for the Engineering Workforce. *International Journal of Engineering Education,* 26(2):278-286.

[J1] Evans, M. & **Johri**, A. (2008): Facilitating Guided Participation through Mobile Technologies. *Journal of Computing in Higher Education*, 20(2): 92-105.

Peer Reviewed Articles in Books

[B3] **Johri**, A. (2006). Interpersonal Assessment: Assessing Peer Knowledge and Behavior in Online Learning Environments. In Roberts, T. (Ed). *Self, Peer, And Group Assessment in E-Learning*. Idea Group Publishing. pp. 283-312.

[B2] **Johri**, A. (2005). Online, Offline, and In-Between: Analyzing Mediated-Action among American and Russian Students in an Online Class. In Roberts, T. (Ed). *Computer-Supported Collaborative Learning in Higher Education*. Idea Group Publishing. pp. 259-280.

[B1] Avery, C., Civjan, J., & **Johri**, A. (2005). Assessing Student Interaction in the Global Classroom Project: Visualizing Communication and Collaboration Patterns Using Online Transcripts. In Cook, K. C., & Grant-Davie, K. (Eds). *Online Education: Global Questions, Local Answers*. pp. 245-266. Baywood Publishing Co. (*Editorially Reviewed*)

Peer Reviewed Articles in Conference Proceedings[*]

[P35] Johri, A., Wang, A., Liu, X. & Madhavan, K. (2011). Utilizing Topic Modeling Techniques to Identify Emergence and Growth of Research Topics in Engineering Education," *Proceedings of IEEE FIE 2011*.

[P34] Goncher, A. & **Johri**, A. (2011). Do Authentic Constraints Inspire Innovative Solutions? Findings from a Case Study of a Freshmen Engineering Design Project. *Electronic Proceedings of MUDD VIII Design Workshop*, Harvey Mudd College, Claremont, CA, May 28-29.

[P33] **Johri**, A. & Teo, Hon Jie (2011). Leveraging Advances in Open Innovation to Re-design Design Learning. *Electronic Proceedings of MUDD VIII Design Workshop*, Harvey Mudd College, Claremont, CA, May 28-29.

[P32] Goncher, A. & **Johri**, A. (2011). The Identification and Emergence of Constraints in Engineering Design Projects. *Proceedings of 2011 Annual Conference and Exposition of the American Society of Engineering Educatio*n, Vancouver, BC.

[P31] Madhavan, K.P.C., Xian, H., **Johri**, A., Vorvoreanu, M., Jesiek, B.K., & Wankat, P.C. (2011). Understanding the Engineering Education Research Problem Space Using Interactive Knowledge Networks. Paper to appear in the *Proceedings of the American Society of Engineering Education Annual Conference and Exposition*, Vancouver, BC. (2011).

[P30] Singh, V., **Johri**, A. & Mitra, R. (2011). Types of Newcomers in an Online Developer Community. *Proceedings of the ACM Conference on Computer Supported Cooperative Work*, March 2011, pp. 717-720.

[P29] **Johri**, A., Nov, O. & Mitra, R. (2011). Environmental Jolts: Impact of Exogenous Factors on Online Community Participation. Interactive paper to appear in *Proceedings of the ACM Conference on Computer Supported Cooperative Work*, March 2011, pp.649-652.

[P28] **Johri**, A. (2011). Look Ma, No Email! Blogs and IRC as Primary and Preferred Communication Tools in

[*] Underlined authors denote student authors; all papers were also presented at the conference.

a Distributed Firm. To appear in *Proceedings of the ACM Conference on Computer Supported Cooperative Work*, March 2011, pp.305-308. (*Best Note Award*)

[P27] Mitra, R., Singh, V. & **Johri**, A. (2011). Cyberlearning Ecosystem - Users, Technology and Tools. *Proceedings of iConference 2011*, Feb. 8-11, Seattle, USA, pp. 719-721.

[P26] **Johri**, A., Nov, O. & Mitra, R. (2011). "Cool" or "Monster"? Company Takeovers and Their Effect on Open Source Community Participation. *Proceedings of iConference 2011*, Feb. 8-11, Seattle, USA, pp. 327-331.

[P25] Goncher A., Kothaneth S. & **Johri** A. (2010). Team Communication and Innovative Design Practices: The Effect of Team Adoption and Implementation of the Tablet PC. *Proceedings of the 54th Human Factors and Ergonomics Conference.* Sept 27th to Oct.1, 2010, San Francisco, pp.1971-1975. DOI: 10.1518/107118110794002143

[P24] **Johri**, A. & Olds, B. (2010). Engineering Learning. *Proceedings of International Conference of the Learning Sciences*, Chicago, IL, June 2010, pp.503-504.

[P23] Goncher, A., **Johri**, A. & Sharma, A. (2010). Use-Value and Functionality versus Aesthetics and Experience: Inculcation of Design Ideologies in Engineering and Industrial Design Students. *Proceedings of the Frontiers in Education Conference*, Arlington, VA, 2010.

[P22] **Johri**, A., Lo, J. Dufour, M. & Shanahan, D. (2010). AdWiki: Designing and Implementing a Socio-Technical Infrastructure for Engineering Student Advising. *Proceedings of the Frontiers in Education Conference*, Arlington, VA, 2010.

[P21] **Johri**, A., Chen, H. & Lande, M. (2009). Creativity and Cognition in Engineering Design: Theoretical and Pedagogical Perspectives. *Proceedings of Creativity and Cognition 2009*, ACM Press, Berkeley, CA.

[P20] Goncher, A., **Johri**, A., Kothaneth, S. & Lohani, V. (2009). Exploration and Exploitation in Engineering Design: Examining the Effects of Prior Knowledge on Creativity and Technology Use. In *Proceedings of 39th ASEE/IEEE Frontiers in Education Conference, October 18 - 21, 2009, San Antonio, TX.* p.M1J-1-M1J-7.

[P19] Pembridge, J., **Johri**, A. & Williams, C. (2009). Transformative Design Practices: Comparing Face-to-Face and Technology-Mediated Design Experiences among Engineering Students. *Proceedings of 39th ASEE/IEEE Frontiers in Education Conference, October 18 - 21, 2009, San Antonio, TX.* pp. W2H-1-W2H-7.

[P18] **Johri**, A. (2009). Preparing Engineers for a Global World: Identifying and Teaching Sensemaking and Practice Forming Strategies. *Proceedings of 39th ASEE/IEEE Frontiers in Education Conference, October 18 - 21, 2009, San Antonio, TX.* pp. M2D-1-M2D-6.

[P17] Pierrakos, O., Beam, TK., Constantz, J., **Johri**, A., & Anderson, R. (2009). On the Development of a Professional Identity: Engineering Persisters Vs Engineering Switchers. *Proceedings of 39th ASEE/IEEE Frontiers in Education Conference, October 18 - 21, 2009, San Antonio, TX.* pp. M4F-1-M4F-6

[P16] **Johri**, A. (2009). Work in Progress – Reorganizing Engineering Pedagogy: Preventing Student Disengagement by Increasing Dialogic Learning. *Proceedings of 39th ASEE/IEEE Frontiers in Education*

Conference, October 18 - 21, 2009, San Antonio, TX. pp. M3J-1-M3J-2.

[P15] Beam, TK., Pierrakos, O., Constantz,J., **Johri**, A., & Anderson, R. (2009).Preliminary Findings on Freshmen Engineering Students' Professional Identity: Implications for Recruitment and Retention. *Proceedings of 2009 Annual Conference and Exposition of the American Society of Engineering Education, Austin, Texas, June 14-17.* AC 2009-993.

[P14] **Johri**, A. (2009). Open Organizing: Designing Sustainable Work Practices for the Engineering Workforce. *Electronic Proceedings of MUDD Design Workshop*, Harvey Mudd College, May 2009.

[P13] Lohani, V. K., Castles, R., **Johri**, A., Spangler, D., and Kibler, D. (2008). Analysis of Tablet PC Based Learning Experiences in Freshman to Junior Level Engineering Courses, *Proc. 2008 ASEE Annual Conference*, June 22-25, 2008, Pittsburgh. AC 2008-1763.

[P12] **Johri**, A. & Lohani, V. (2008). Representational Literacy and Participatory Learning: Analyzing Tablet Experiences in Large Classes. *In Proceedings of 38th ASEE/IEEE Frontiers in Education Conference Saratoga Springs, NY*. pp. S3J-1-S3J-6.

[P11] **Johri**, A. (2008). Boundary Spanning Knowledge Broker: An Emerging Role in Global Engineering Firms. *In Proceedings of 38th ASEE/IEEE Frontiers in Education Conference Saratoga Springs, NY*. pp. S2E-7-S2E-12.

[P10] Evans, M., **Johri**,A., Glasson, G., Cagiltay, K, Pal, J., & Sarkar, P. (2008). ICT4D and the Learning Sciences. *In the proceedings of International Conference of Learning Sciences 2008.* Vol. 3, pp.229-236.[†]

[P9] Newstetter, W., **Johri, A.**, & Wulf, V. (2008)**.** Laboratory Learning: Industry and University Research as Sites for Situated and Distributed Cognition**.** *In the proceedings of International Conference of Learning Sciences 2008.* Vol. 3, pp.290-297.

[P8] **Johri, A.** & Lohani, V. (2008). Creating a Participatory Learning Environment in Large Classes Using Pen-Based Computing. *Proceedings of International Conference of Learning Sciences 2008*. Vol. 1, pp.398- 405.

[P7] **Johri, A. &** Lohani, V. (2008). Analysis of Tablet PC Based Learning Experiences in Engineering Classes. *In the proceedings of International Conference of Learning Sciences 2008.* Vol. 3, pp.51-52.

[P6] **Johri**, A. (2007). The Socio-Technical Process of Newcomer Participation: Findings from a Field Study. *International Conference of Computer Supported Collaborative Learning*, Rutgers, NJ, July 16 –21, 2007. pp. 438-439.

[P5] **Johri**, A., Pipek, V., & Wulf, V. (2007). Bridging Artifacts and Actors: Supporting Knowledge and Expertise Sharing Work Practices through Technology. *1st Symposium on Computer-Human Interaction and Management of Information Technology*, Boston, MA, March 30-31, 2007. pp. 1-2. *Acceptance rate: 32%*

[P4] Barron, B., Tackman, J., Martin, C. Mercier, E., **Johri**, A., Johnson et al. (2004) Equity and the Development of Technological Fluency. *The Proceedings of the Sixth International Conference of the*

[†] The acceptance rate for ICLS and CSCL ranges between 30-50%, ACM conference acceptance rate range between 15-25%

Learning Sciences (ICLS). Mahwah, NJ: Erlbaum.

[P3] Broglio, R. & **Johri**, A. (2002). Living Inside the Poem: Enhancing English Literature Classes with MOOs. In P. Bell, R. Stevens, & T. Satwicz (Eds.), *Keeping Learning Complex: The Proceedings of the Fifth International Conference of the Learning Sciences (ICLS)* (pp. 512-513). Mahwah, NJ: Erlbaum.

[P2] **Johri**, A. (2002). Designing for Change: Findings from an Ethnographic Study of a Complex Learning Environment. In P. Bell, R. Stevens, & T. Satwicz (Eds.), *Keeping Learning Complex: The Proceedings of the Fifth International Conference of the Learning Sciences (ICLS)*. Mahwah, NJ: Erlbaum.

[P1] Civjan, J., **Johri**, A., Avery, C. & Herrington, T. (2002). VisOC: A Tool for Visualizing Online Communication in Educational Settings. In P. Bell, R. Stevens, & T. Satwicz (Eds.), *Keeping Learning Complex: The Proceedings of the Fifth International Conference of the Learning Sciences (ICLS)*. Mahwah, NJ: Erlbaum.

Editorials/Book Reviews

[EB4] **Johri**, A. (2011). Responding to Changes in the Engineering Workplace (Theme Issue Editorial). *Engineering Studies*, August 2011

[EB3] **Johri**, A. (2010). Situated Engineering in the Workplace (Theme Issue Editorial), *Engineering Studies*, December 2010

[EB2] **Johri**, A. (2010). Guest Editorial: Creating Theoretical Insights in Engineering Education. *Journal of Engineering Education*, July 2010.

[EB1] **Johri**, A. (2010). Book Review Essay: Global and Virtual Teamwork. *Journal of Engineering Education*, January 2010.

Refereed Workshops & Symposia Organized

[W06] **Johri**, A. & Olds, B. (2010). Engineering Learning. Pre-conference Workshop at ICLS 2010, Chicago, IL, June 2010.

[W05] **Johri**, A. & Madhavan, K. (2010). Introduction to Cyberinfrastructure for Engineering Education Research, Learning and Outreach. Invited Workshop at NSF EEC Awardees Conference, Reston, VA, Feb. 1-2, 2010.

[W04] **Johri**, A., Chen, H. & Lande, M. (2009). Creativity and Cognition in Engineering Design: Theoretical and Pedagogical Perspectives. *Workshop at Creativity and Cognition 2009*, Berkeley, CA.

[W03] Evans, M., **Johri**,A., Glasson, G., Cagiltay, K, Pal, J., & Sarkar, P. (2008). ICT4D and the Learning Sciences. Symposium organized at the *International Conference of Learning Sciences 2008.*

[W02] Newstetter, W., **Johri, A.**, & Wulf, V. (2008)**.** Laboratory Learning: Industry and University Research as Sites for Situated and Distributed Cognition**.** Symposium organized at the *International Conference of Learning Sciences 2008.*

[W01] **Johri**, A. & Wulf, V. (2007). Communities of Practice in Highly Computerized Work Settings. Workshop organized at *Communities and Technologies Conference (C&T 2007)*, East Lansing, Michigan.

Invited Contribution to National-level Policy Reports/Initiatives

[NP6] Madhavan, K.P.C., Xian, H., Vorvoreanu, M., & Johri, A. (2010). Highly interactive data gateways for understanding NSF investments. Presentation to the NSF CISE/SBE Subcommittee on Understanding the NSF Portfolio, Arlington, VA. (September 2010).

[NP5] "Discovery in a Research Portfolio: Tools for Structuring, Analyzing, Visualizing and Interacting with Proposal and Award Portfolios," Final Report on Recommendations from NSF CISE and SBE AC Subcommittee, November 2010

[NP4] American Society for Engineering Education (ASEE) report on "Innovations in Engineering Education," November 2008, Atlanta, GA.

[NP3] NSF Report "Thought Leaders Workshop on the Future of Engineering Education," June 2008

[NP2] NSF Workshop on "Cyberinfrastructure and Engineering Education," September 4-5, 2008, Arlington VA.

[NP1] NSF Workshop on "Digital Video Inquiry in Learning and Education," November 25-26, 2002, Palo Alto, CA.

Technical Reports & Workshop Papers

[M4] Johri, A. (2007). *When* is a Community of Practice? Workshop paper presented at Technology and Communities of Practice Workshop, C&T 2007, East Lansing, MI.

[M3] **Johri**, A. (2006). Events, Artifacts & Interactions: Exploring Impression Formation and Use Among Collocated and Distributed Coworkers. *Presented at the Human-Computer Interaction Consortium, CO.*

[M2] Polanyi, L. & **Johri**, A. (2005). Video Based Communication and Global Teamwork. *FXPAL Technical Report*.

[M1] **Johri**, A. (2003). DIVER, Software for Video Analysis, *User Guide Version 1.1*.

Presentations

Refereed Conference Presentations (separate from proceedings)

[C15] **Johri**, A. & Sharma, A. (2011). Designing for Development: Three Preliminaries Studies from Field Research in India. Workshop on *Mobile Collaboration in the Developing World* at ACM CSCW 2011, March 20, 2011.

[C14] **Johri**, A. (2010). Leveraging the Digital Media Ecology in a Distributed Firm. Presented at the *International Symposium of Information Systems*, Hyderabad, India, Dec. 18, 2010.

[C13] **Johri**, A. (2009). Using Case Studies and Case Preparation Kits to Teach Global Team Competency. Poster Session at the *12th Annual Colloquium on International Engineering Education*, Ames, Iowa October 22-25, 2009.

[C12] **Johri**, A. (2009). Multiplicity and Personalization: How Global Engineers Develop Successful Technology-Mediated Work Practices, *12th Annual Colloquium on International Engineering Education*, Ames, Iowa October 22-25, 2009.

[C11] **Johri**, A. (2009). Demo or Die: The Collective Championing of Digital Innovations in an R&D Organization. *Academy of Management*, 2009, Chicago, IL.

[C10] **Johri**, A. (2008). Why We See Coworkers Differently: Situational and Institutional Shaping of Impressions. Presented at Organizational Communication and Information Systems Division Session on Individuals and Distributed Work, *Academy of Management,* 2008, Anaheim, CA.

[C9] **Johri**, A. (2006). Interpersonal Impression Formation in a Community of Practice. Presented at the Doctoral Consortium *International Conference of Learning Sciences,* June 2006, Bloomington, Indiana.

[C8] **Johri,** A. (2005). Working Across the Pacific: A Field Study of Impression Formation among Distributed Coworkers in an R&D Organization, Presented at the Doctoral Consortium Workshop, *European Computer Supported Cooperative Work,* September 2005, Paris, France.

[C7] **Johri**, A. (2005). Understanding Impression Formation and Impression Accuracy Among Distributed Coworkers. Presented at Organizational Communication and Information Systems Division, *Academy of Management,* 2005, Honolulu, HI.

[C6] **Johri,** A. (2005) Knowing Others: Understanding Interpersonal Impression Formation Among Learners in Technology Mediated Communities of Practice. Presented at the Student Community Workshop, *Computer Supported Cooperative Learning*, May 2005, Taipei, Taiwan. (In supplemental proceedings of the conference)

[C5] **Johri,** A. (2005). Understanding and Developing a "Learning Relationship" in Computer Supported Learning Communities. Presented at the Fostering Learning Communities Workshop, *Computer Supported Cooperative Learning,* May 2005, Taipei, Taiwan.

[C4] **Johri**, A. (2005). Sharing Interpersonal and Contextual Knowledge: Developing a Community of Practice in Distributed Online Learning Environments. *Annual Conference of American Educational Research Association,* 2005, Montreal, Canada.

[C3] **Johri**, A. (2005). Using Structuration Theory to Analyze and Understand Technology Use in a Distributed Online Learning Environment. *Annual Conference of American Educational Research Association,* 2005, Montreal, Canada.

[C2] **Johri**, A. (2003). When the Technology that Facilitates is also the Technology that Inhibits: Results from the Case Study of a Cross-Cultural Online Learning Environment. *Annual Conference of American Educational Research Association,* 2003, Chicago, IL.

[C1] Barron, B., Martin, C., Mercier, E., Pilner, K., Mathias, A., **Johri**, A, & Walter, S. (2003). Patterns of Participation in Fluency-Building Experiences in a High-tech Community: Implications for Bridging Divides by Design. *Annual Conference of American Educational Research Association,* 2003, Chicago, IL.

Invited Presentations/Talks

[I13] Madhavan, K.P.C., Xian, H., Vorvoreanu, M., **Johri**, A., Jesiek, B., Wang, A., & Wankat, P. (2010). The FIE Story - 1991 to 2009.² Invited video presentation featured at the Frontiers in Education Conference 2010. Available online at http://www.youtube.com/watch?v=bKA4zJc3bsA. (October 2010).

[I12] **Johri**, A. (2011). Representing Engineering Education: Can Relational and Epistemic Representations Increase Our Understanding of the Engineering Education Research Enterprise? Presented at the Virginia Tech/Clemson Seminar Series on Engineering Education Research, Feb. 25, 2011.

[I11] **Johri**, A. (2010). Engineering and Development: Values and Design. Presented at Microsoft Research Labs, Bangalore, India, September**,** 2010.

[I10] **Johri**, A. (2010). Computational Literacy: The Reshaping of Human Practices through Digital Representations. Presented at School of Education and Social Policy, Northwestern University, Chicago, IL, February 9, 2010.

[I9] **Johri**, A. (2007). Innovation in a Flat and Networked World. Presented at GENENCOR Inc. Palo Alto, CA, July 10, 2007.

[I8] **Johri**, A. (2007). Global Innovators: Preparing Engineers for a Flat and Networked World. Presented at the Department of Engineering Education, Virginia Tech, March 2007.

[I7] **Johri**, A. (2006). Mediated Impressions: How Digital Technology Affects Impression Formation and Shapes Collaboration and Learning. Presented at the Department of Educational Theory and Practice, School of Education, State University of New York at Albany, December 2006.

[I6] **Johri**, A. (2006). Technology and Collaboration in R&D Laboratories. Microsoft Research Labs, Bangalore, India, September 2006.

[I5] **Johri**, A. (2006). Graduate Education in the U.S. Presented at the Annual Retreat of the Department of New Media and Information Systems, University of Siegen, Germany, August 2006.

[I4] **Johri**, A. (2006). Interpersonal Impression Formation in a Community of Practice. University of Siegen, Germany, July 2006.

[I3] **Johri**, A. (2005). Understanding Impression Formation and Impression Accuracy Among Distributed Coworkers. Fraunhofer FIT, Sankt Augustin, Germany, August 2005.

[I2] Hinds, P. & **Johri**, A. (2004). Understanding Impression Accuracy among Distributed Coworkers. MediaX Conference, Stanford University, Nov. 2004.

[I1] **Johri**, A. (2003). Fundamentals of Digital Design. Presented at Workshop on Digital Communication, March 2003, Department of Communication, G.B. Pant University of Agriculture and Technology, Pantnagar, India.

Professional Development

- NSF Funded Peer Mentoring for Engineering Education Research Workshop, Athens, GA, August 11-13.
- NSF Funded Summer Research Institute on Science of Socio-Tech Systems, May 2011, Captiva Island, FL.
- iConference Junior Faculty Consortium, Seattle, WA, February 2011
- Technology and Innovation Management (TIM) Junior Faculty Consortium, Chicago, IL, August 2009
- Organization Communication and Information Systems (OCIS) Junior Faculty Consortium, Anaheim, CA, August 2008
- International Conference of the Learning Sciences (ICLS) 2008 Junior Faculty Consortium and Fellowship, Utrecht, Netherlands, June 2008.

Teaching Experience

Graduate

Instructor	Foundations of Engineering Education (24 students)		Fall 2011
Instructor	Global Engineering Work Practices (6 students)	(3.7/4.0)	Spring 2010
Instructor	Ethnographic and Qualitative Research (10 students)*	(4.0/4.0)	Fall 2009
Instructor	Global Engineering Work Practices (10 students)*	(4.0/4.0)	Spring 2009
Co-Instructor	Foundations of Engineering Education* (10-12 students)	(3.6/4.0)	Spring 2008, Fall 2008
Co-Instructor	Human-Computer Interaction in Education* (Stanford)	(10 students)	Fall 2004

Undergraduate

Co-Instructor	Engineering Design for Social Development (20 students)		Fall 2011
Instructor	Engineering Design	(408 students; 2.96/4.0)	Spring 2011
Co- Instructor	Engineering Explorations	(450 students; 3.3/4.0; College Mean=3.2)	Fall 2007

Invited Lectures

Sociocultural Influences on Learning (Instructor: Carol Brandt, School of Education)
Rising Sophomore Abroad Program (Instructor: Joseph Tront, College of Engineering Study Abroad Program)
Engineering Cultures (Instructor: Matt Wisnioski, Program in Science and Technology Studies) (*Twice*)
Designing Cultures (Instructor: Matt Wisnioski, Program in Science and Technology Studies)
Technology and Education (Instructor: Michael Evans, School of Education)

Graduate Teaching Assistant (All courses at Stanford)

Online Learning Communities (Instructor: Roy Pea)
HCI in Education (Instructor: Decker Walker)
Persuasive Technologies in Education (Instructor: BJ Fogg)

(Courses marked * are new offerings or a substantial redesign of a prior offering)

Current Students

Advisee

Andrea Goncher (Ph.D., Engineering Education)
Hon Jie Teo (Ph.D., Engineering Education)
Brian Lewis (Ph.D., Engineering Education)

Dissertation Committee Member

Joon Suk Lee (CS, Advisor: Deborah Tatar)
Jacob Moore (Eng Ed, Advisor: Chris Williams)

Sumitra Nair (STS, Advisor: Gary Downey)
Ricardo Quintana-Castillo (CS, Advisor: Manuel Perez-Quinones)

Alumni
Raktim Mitra (Co-Advisor, M.S. Thesis, Industrial and Systems Engineering)
Ashwin Khandeparker (Co-Advisor, M.S. Project, Computer Science)

Students Funded on Projects
Xiaomo Liu, Gaurav Dongaonkar, Monique Dufour, James Pembridge, Varun Ramdas, Asta Schram, Prasanna Kumar, Shreya Kothaneth, Daniel Breakiron, Vismay Shah, and Daniel Shanahan, among others.

Service to the Institution and the Profession

Institutional Service

Departmental Level
Member, Department of Engineering Education Graduate Committee (2007-2009)

Co-Chair, Department of Engineering Education Strategic Planning Committee (2009 – present)
Development of strategic plan in accord with faculty and advisory board

Undergraduate Advising: Around 50-100 freshmen/sophomore-level students each semester
Created a system (AdWiki) to improve student advising at the departmental level

College Level
Member, International Program Faculty Committee (appointed by the Dean, College of Engineering)

University Level
Member, Committee on Equal Opportunity and Diversity (2008—2011), Virginia Tech
Institutional Partnership Taskforce 2008-2009
Campus Climate Taskforce 2009-2010
Reviewer for Student Grants, Graduate Research Development Program at GSA

At Stanford
Student Representative PSE Committee (2004-05)
Member, BASES Social Entrepreneurship Business Plan Competition Teams (2005-06)
Mentor: Incoming Ph.D. students (2003-05)
Member, Learning Design & Technology M.A. Admissions Review Committee 2004

Service to the Profession

Member, NSF CISE/SBE AC Sub-Committee on Research Portfolio Analysis

Program Committee Member
NSF EEC Division Annual Awardees Conference 2010 (Co-Organizer)
NSF EEC Division Annual Awardees Conference 2009 (Co-Organizer)
European Conference on Computer-Supported Cooperative Work 2009
European Conference on Computer-Supported Cooperative Work 2011

MobileHCI, International Conference on Mobile Human-Computer Interaction 2009
9th International Conference on Design of Cooperative Systems 2010
2nd Conference on Computer-Human Interaction and Management of Information Technology (CHIMIT 2010)
9th Annual Workshop on HCI Research in MIS, Pre-ICIS, St. Louis, Missouri, December 12, 2010
8th ACM Conference on Creativity and Cognition, Nov. 3-6, 2011, Atlanta, GA
ACM CHI 2012, Program Committee Member, Work in Progress

Reviewing

Grant Proposals
National Science Foundation Panel (2008 -2011): Multiple panels for the IIS, DUE, CDI & EEC divisions
National Science Foundation Site Review for Engineering Research Center (ERC)
Indo-US Science & Technology Forum (IUSSTF) Proposal Review
Apprenticeship Faculty Grant, ERM Division, ASEE, 2011

Conferences
International Conference of Learning Sciences (ICLS) 2006, 2008
International Conference of Computer-Supported Cooperative Learning (CSCL) 2007, 2009
American Education Research Association Conference (AERA) 2003, 2005
Annual Conference of the Academy of Management, 2006, 2007, 2008, 2009
Computer-Human Interaction Conference (CHI) 2003, 2005, 2006, 2009, 2010
International Conference of Information Systems (ICIS) 2006, 2010
Persuasive Technology Conference, 2007
Computer Supported Cooperative Work (CSCW) 2006, 2008, 2011, 2012
HICSS, Learning Analytics Mini-track, 2012

Journals (Ad-hoc reviewer)
Journal of Computer Supported Cooperative Work; International Journal of Human-Computer Studies; Information and Software Technology; Decision Support Systems; Journal of the American Society for Information Science and Technology; MIS Quarterly; Journal of Engineering Education; International Journal of Engineering Education; The Journal of the Learning Sciences; Engineering Studies; Mind Culture and Activity

Discussant
TIM Session, "Adaptation and Chance: Learning Issues" Academy of Management Conference 2008
TIM Session "Organizational Relations: Alliance/Joint Ventures" Academy of Management Conference 2008

Professional Memberships
Association for Computing Machinery (ACM)
International Society of Learning Sciences (ISLS)
American Society of Engineering Education (ASEE)
Academy of Management (AoM)
International Network of Engineering Studies (INES)

Language Skills	Fluency in English & Hindi; Limited proficiency in German
Travel/Extended Stay	U.S., Germany, Japan, India, Ireland, Singapore, Taiwan, France, Belgium, Switzerland