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Education

2009. Ph. D., Information Science & Learning Technology University of Missouri

- Dissertation Topic: Knowledge Management, Social Identity and Social Network Structure in Completely Online Groups
- *Minor:* Computer Science
- Advisor: James Laffey

2003. M.S., Software Engineering (Computer Science) University of Minnesota

- Thesis: A Logical Data Model for Comparative Vertebrate Genome Research
- Advisor: John V. Carlis, Ph. D., Associate Professor

M.S., Major: Administrative Leadership, Human Resource Development Track

University of Wisconsin – Milwaukee, Milwaukee, WI

B.S., Major: History

University of Wisconsin – Madison, Madison, WI

Positions Held

2015-Present. Director, Data Science and Analytics Masters Program, University of Missouri.

2015-Present. Associate Professor with Tenure, University of Missouri iSchool; MU Informatics Institute; Courtesy Appointment in Department of Computer Science

2013-2015. Assistant Professor, University of Missouri iSchool; Assistant Professor, MU Informatics Institute

2009-2013. Assistant Professor, College of Computing and Informatics, Drexel University.

2008-2009. Research Assistant, University of Missouri.

2005-2008. Director of Product Development, Foliotek, Columbia, MO

2004-2005. Software Architect, MD Consult, St. Louis, MO.

2003-2004. Software Architect, Nestle Purina, St. Louis, MO.

1999-2003. Enterprise Architect, Guidant Corporation, St. Paul, MN.

1997-1999. Senior Consultant, Coopers & Lybrand, Minneapolis, MN.

1993-1997. Software Engineer & Project Coordinator, Osmose, Buffalo, NY

Publications

Peer Reviewed Journal Articles

1. **Goggins, S.**, Galyen, K., Laffey, J. (2016). Scaling Learning Analytics Through Small Group Structural Dynamics Analysis: An Exploratory Study and Research Agenda. *Journal of Computer Assisted Learning*, accepted.
2. Blincoe, K., Sheoran, J., **Goggins, S.**, Petakovic, E., & Damian, D. (2016). Understanding the popular users: Following, affiliation influence and leadership on GitHub. *Information and Software Technology*, 70, 30–39.
3. **Goggins, S.**, & Xing, W. (2016). Building models explaining student participation behavior in asynchronous online discussion. *Computers & Education*, 94, 241–251.
4. Xing, W., Guo, R., Petakovic, E., & **Goggins, S.** (2015). Participation-based student final performance prediction model through interpretable Genetic Programming: Integrating learning analytics, educational data mining and theory. *Computers in Human Behavior*, 47, 168–181.
5. Xing, W., Wadholm, R., Petakovic, E., & **Goggins, S.** (2015). Group Learning Assessment: Developing a Theory-Informed Analytics. *Journal of Educational Technology & Society*, 18, 110–128.
6. Xing, W., Guo, R., Petakovic, E., & **Goggins, S.** (2015). Participation-based student final performance prediction model through interpretable Genetic Programming: Integrating learning analytics, educational data mining and theory. *Computers in Human Behavior*, 47, 168–181.
7. Xing, W., Wadholm, R., Petakovic, E., & **Goggins, S.** (2015). Group Learning Assessment: Developing a Theory-Informed Analytics. *Journal of Educational Technology & Society*, 18(2), 110–128.
8. C. M. Mascaro and **Goggins, S. P.** (2015) “Technologically Mediated Political Discourse During a Nationally Televised GOP Primary Debate”, *Journal of Information Technology & Politics*, vol. 12, pp. 252–269, 2015.
9. L. Postner, Burdge, D., Jackson, S., Ellis, H., Hislop, G., and **Goggins, S.** (2015). “Using humanitarian free and open source software (HFOSS) to introduce computing for the social good”, *ACM SIGCAS Computers and Society*, vol. 45, pp. 35–35, 2015.
10. Xing, W., Wadholm, R., Petakovic, E., & **Goggins, S. P.** (2015). Group Learning Assessment: Developing a Theory-Informed Analytics. *Educational Technology & Society*, 18(2), 110-128.
11. Xing, W., Guo, R., Petakovic, E., & **Goggins, S.** (2015). Participation-based student final performance prediction model through interpretable Genetic Programming: Integrating learning analytics, educational data mining and theory. *Computers in Human Behavior*, 47, 168-181.
12. **Goggins, S. P.**, Xing, W., Chen, X., Chen, B., & Wadholm, B. (2015). Learning Analytics at " Small" Scale: Exploring a Complexity-Grouped Model for Assessment Automation. *J. UCS*, 21(1), 66-92.
13. **Goggins, S. P.** (2014). Designing computer-supported collaborative learning at work for rural IT workers: Learning ensembles and geographic isolation. *British Journal of Educational Technology*, 45(6), 1069-1081.

14. Graves, I., McDonald, N., & **Goggins, S. P.** (2014). Sifting signal from noise: A new perspective on the meaning of tweets about the “big game”. *new media & society*, 1461444814541783.
15. **Goggins, S.**, & Petakovic, E. (2014). Connecting theory to social technology platforms a framework for measuring influence in context. *American Behavioral Scientist*, 0002764214527093.
16. Nora, M., Blincoe, K., Petakovic, E., & **Goggins, S.** (2014). Modeling Distributed Collaboration on Github. *Advances in Complex Systems (ACS)*, 17(07).
17. **Goggins, S. P.**, & Mascaro, C. (2013). Context Matters: The Experience of Physical, Informational, and Cultural Distance in a Rural IT Firm. *The Information Society*, 29(2), 113-127. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/01972243.2012.758212>
18. **Goggins, S. P.**, Mascaro, C., & Valetto, G. (2013). Group informatics: A methodological approach and ontology for sociotechnical group research. *Journal of the American Society for Information Science and Technology*, 64(3), 516–539. doi:10.1002/asi.22802
19. **Goggins, S.**, Valetto, G., Mascaro, C., & Blincoe, K. (2013). Creating a model of the dynamics of socio-technical groups. *User Modeling and User-Adapted Interaction*, 23(4), 345-379. doi:10.1007/s11257-012-9122-3
20. **Goggins, S.**, & Jahnke, I. (2012). CSC@Work: Computer-Supported Collaborative Learning at the Workplace - Making Learning Visible in Unexpected Online Places Across Established Boundaries. *International Journal of Sociotechnology and Knowledge Development*, 4(3), 17-37.
21. Mascaro, C., Novak, A., & **Goggins, S.** (2012). The Daily Brew: The Structural Evolution of the Coffee Party on Facebook During the 2010 United States Midterm Election Season. *Journal of Information Technology and Politics*, 9(3).
22. Unsworth, K., Axellson, A.S., **Goggins, S.**, Mascaro, M. (2012). Exercising Control: A Comparative Study of Government Agencies and their Relationships with the Public Using Social Media. *Select Papers of Internet Research*. <http://spir.aoir.org/index.php/spir/article/view/11>
23. **Goggins, S.**, Laffey, J., & Gallagher, M. (2011). Completely online group formation and development: small groups as socio-technical systems. *Information Technology & People*, 24(2), 104-133.
24. **Goggins, S.**, Schmidt, M., Moore, J. L., & Guajardo, J. (2011). 3D Virtual Worlds: Assessing the Experience and Informing Design. *International Journal of Social and Organizational Dynamics in IT*, 1(1).
25. Laffey, J., Tsai, I.-C., Amelung, C., Hong, R.-Y., Galyen, K., and **Goggins, S.**, (2011). The Role of Social Information for Social Ability, Sense of Community and Satisfaction in Online Learning. *Journal of Open and Distance Education Research*.
26. Laffey, J., Amelung, C., & **Goggins, S.** (2009). “A Context Awareness System for Online Learning: Design Based Research,” *International Journal on E-Learning*, 8(3).
27. Tsai, I.-C., Kim, B., **Goggins, S.**, Kumalasari, C., Laffey, J., & Amelung, C. (2008). “A Model Explaining the Social Nature of Online Learning,” *Journal of Educational Technology and Society*.

28. Schmidt, M., & Laffey, J., Stichter, J., **Goggins, S.**, Schmidt, C. (2008). "The Design of iSocial," *International Journal of Technology, Knowledge and Society*.

Competitive Peer Reviewed Full Conference Papers

1. Introne, J., Semaan, B., & **Goggins, S.** (2016). *A Sociotechnical Mechanism for Online Support Provision*. San Jose, CA: ACM SIGCHI.
2. **Goggins, S. P.** (2015). HFOSS: humanitarian open source software in the college classroom: pre-conference workshop. *Journal of Computing Sciences in Colleges*, 30(5), 91–92.
3. **Goggins, S.**, Xing, W., Chen, X., Chen, B., & Wadholm, B. (2015). Learning Analytics at "Small" Scale: Exploring a Complexity-Grouped Model for Assessment Automation. *Journal of Universal Computer Science*, 21(1), 66–92.
4. Xing, W., & **Goggins, S.** (2015). Learning analytics in outer space: a Hidden Naïve Bayes model for automatic student off-task behavior detection. In *Proceedings of the Fifth International Conference on Learning Analytics And Knowledge* (pp. 176–183). ACM.
5. Xing, W., & **Goggins, S.** (2015). Student Assessment in Small Groups: A Spectral Clustering Model. *iConference 2015 Proceedings*.
6. Xing, W., Kim, S. M., & Goggins, S. (2015). Modeling Performance in Asynchronous CSCL: An Exploration of Social Ability, Collective Efficacy and Social Interaction. International Society of the Learning Sciences Gothenburg, Sweden.
7. Xing, W., & Goggins, S. (2015a). Learning analytics in outer space: a Hidden Naive Bayes model for automatic student off-task behavior detection. In *Proceedings of the Fifth International Conference on Learning Analytics And Knowledge*. ACM.
8. Xing, W., & Goggins, S. (2015b). Student Assessment in Small Groups: A Spectral Clustering Model. *iConference 2015 Proceedings*.
9. Borge, M., & **Goggins, S.** (2014). *Towards the Facilitation of an Online Community of Learners: Assessing the Quality of Interactions in Yammer*. Proceedings from International Conference on the Learning Sciences, Boulder, CO. (pp. 753-760). ICLS.
10. Xing, W., Wadholm, B., & **Goggins, S.** (2014). Learning analytics in CSCL with a focus on assessment: an exploratory study of activity theory-informed cluster analysis. In *Proceedings of the Fourth International Conference on Learning Analytics And Knowledge* (pp. 59-67). ACM.
11. **Goggins, S.** (2013). *Collaboration in Isolation: Bridging Social and Geographical Boundaries in Two Rural Technology Firms*. iConference, 2013, Dallas, Texas: Illinois Digital Environment for Access to Learning and Scholarship.
12. Black, A., Mascaro, C., Gallagher, M., **Goggins, S.** (2012). Twitter Zombie: Architecture for Capturing, Socially Transforming and Analyzing the Twittersphere. Sanibel Island, FL: ACM.
13. **Goggins, S.**, Mascaro, C., Mascaro, S. & Gallagher, M. (2012). *The Haiti Crisis: Participation and Purpose in Large Scale Disaster Relief*. Accepted at the ACM Conference on Computer Supported Cooperative Work, 2012

14. Mascaro, C., Magee, R., & **Goggins, S.** (2012). Not Just a Wink and Smile: An Analysis of User-Defined Success in Online Dating. *iConference 2012*, February 7-10, 2012, Toronto, Canada.
15. Mascaro, C., Novak, A. & **Goggins, S.** (2012) Shepherding and Censorship: Discourse Management in the Tea Party Patriots Facebook Group. Accepted at HICSS, 2012.
16. Blincoe, K., Valetto, G., & **Goggins, S.** (2012). *Leveraging Task Contexts for Managing Developers' Coordination*. Accepted at the ACM Conference on Computer Supported Cooperative Work, 2012
17. Mascaro, M. & **Goggins, S.** (2011). The Daily Brew: The Structural Evolution of the Coffee Party on Facebook During the 2010 United States Midterm Election Season. 4th Annual Political Networks Conference, University of Michigan, June 17-18, 2011.
18. Mascaro, C., Magee, R. & **Goggins, S.** (2011). Looking for Love in All the Right Places: Defining Success in the World of Online Dating. ISSOME 2011
19. Mascaro, C., & **Goggins, S.** (2011). *Brewing Up Citizen Engagement: The Coffee Party on Facebook*. Proceedings from Communities & Technologies, Brisbane, Australia.
20. **Goggins, S.**, & Laffey, J., Amelung, C. (2011). *Context Aware CSCL: Moving Toward Contextualized Analysis*. Proceedings from CSCL 2011, Hong Kong.
21. **Goggins, S.**, Galyen, K., & Laffey, J. (2010). Network Analysis of Trace Data for the Support of Group Work: Activity Patterns in a Completely Online Course. Proceedings from ACM Group 2010, Sanibel Island, FL.
22. **Goggins, S.**, Laffey, J., Amelung, C., & Gallagher, M. (2010). Social Intelligence In Completely Online Groups. Proceedings from IEEE International Conference on Social Computing, Minneapolis, MN.
23. **Goggins, S.**, Schmidt, M., Guajardo, J., Moore, J. (2010). "Assessing Multiple Perspectives in Three Dimensional Virtual Worlds: Eye Tracking and All Views Qualitative Analysis (AVQA)" (25% track acceptance rate), HICSS-43, Hawaii, 2010.
24. **Goggins, S.**, Laffey, J., & Galyen, K. (2009). Social Ability in Online Groups: Representing the Quality of Interactions in Social Computing Environments. Paper presented at the Proceedings of IEEE 2009 Conference on Computer Science and Engineering, Vancouver, BC.
25. **Goggins, S.**, & Erdelez, S. (2009). "HIB and HCI: Common Interests in Different Communities", Proceedings of the iConference, 2009, Chapel Hill, NC.
26. Schmidt, M., **Goggins, S.**, & Laffey, J. (2008). "The Design of iSocial: A Three Dimensional, Multiuser, Virtual Learning Environment for the Treatment of Autism Spectrum Disorders," Paper presented at the Fourth International Conference on Technology, Knowledge and Society, 2008, Boston, MA.
27. **Goggins, S.**, Laffey, J., & Tsai, I.-C. (2007). "Cooperation and Groupness: Community Formation in Small online Collaborative Groups," Paper presented at the ACM Group, 2007, Sanibel Island, FL.

Competitive Peer Reviewed Conference Short Papers

1. McDonald, N., & **Goggins, S.** (2013). Performance and participation in open source software on GitHub. In *CHI'13 Extended Abstracts on Human Factors in Computing Systems* (pp. 139-144). ACM.
2. **Goggins, S.**, Tsai, I.-C., Kim, B., Kumalasari, C., Laffey, J., & Amelung, C. (2007). "Building a Model Explaining the Social Nature of Online Learning," Paper presented at the American Education Research Association, 2007, Chicago, IL.
3. Nuankhieo, P., Tsai, I.-C., **Goggins, S.**, & Laffey, J. (2007). Comparing the Social Interaction Pattern of Online One-on-One Peer and Small Group Collaboration Activities. Proceedings of the 2007 IEEE International Symposium on Multimedia Workshops, Taiwan.

Peer Reviewed Books

1. **Goggins, S.**, Jahnke, I., & Wulf, V. (Eds.). (2013). *CSCL@Work: Computer Supported Collaborative Learning at Work*. New York: Springer.

Peer Reviewed Book Chapters

28. **Goggins, S.**, & Valetto, G. (2014). Assessing the Structural Fluidity of Virtual Organizations and its Effects. In K. Zweig, W. Neuser, V. Pipek, M. Rohde, & I. Scholtes (Eds.), *Social Informatics: The social Impact of Interactions Between Humans and IT*. New York: Springer.
29. **Goggins, S. P.**, & Dyke, G. (2013). Network analytic techniques for online chat Productive multivocality in the analysis of group interactions. In D. Suthers, K. Lund, C. Teplovs, & C. P. Rose (pp. 541–559). Springer.
30. **Goggins, S. P.**, Jahnke, I., & Wulf, V. (2013). *CSCL@ Work for Practitioners Computer-Supported Collaborative Learning at the Workplace*. In (pp. 317–323). Springer.
31. Novak, A., Mascaro, C., **Goggins, S.**, & Koku, E. (2013). How [not] to caffeinate a political group: Parent post influence on conversational network structure *Politics and Policy in the Information Age*. New York: Springer.
32. **Goggins S.** & Jahnke, I. (2013). Designing CSCL at Work: A Research Agenda. *CSCL@Work: Computer Supported Collaborative Learning at Work*.
33. Mascaro, C., Novak, A., & **Goggins, S.** (2012). Emergent Networks of Topical Discourse: A Comparative Framing and Social Network Analysis of the Coffee Party and Tea Party Patriots Groups on Facebook. *Web 2.0 Technologies and Democratic Governance: Political, Policy and Management Implications*.
34. **Goggins, S.**, & Erdelez, S. (2010). Collaborative Information Behavior in Completely Online Groups. In J. Foster (Ed.), *Collaborative Information Behavior: User Engagement and Communication Sharing*. Hershey, PA: ISI Global.

Peer Reviewed Conference Workshop Papers

1. **Goggins, S. P.**, & Jahnke, I. (2013). Computer-Supported Collaborative Learning at Work: CSCL@ Work goes TEL@ Work ECTEL meets ECSCW 2013: Workshop on Collaborative Technologies for Working and Learning.

2. Reynolds, R., & **Goggins, S. P.** (2013). Designing Socio-Technical Systems to Support Guided “Discovery-Based” Learning in Students: The Case of the Globaloria Game Design Initiative. Proceedings from International Workshop on Teaching Analytics, Leuven, Belgium.
3. **Goggins, S.** (2012). *Collaborative Big Social Data Research*. Proceedings from International Workshop on Social Business, Copenhagen, Denmark.
4. **Goggins, S. P.** (2012). *Group Informatics: A Multi-Domain Perspective on the Development of Teaching Analytics*. Proceedings from TaPTA Workshop at EC-TEL, Saarbrücken, Germany.
5. Introne, J., & **Goggins, S.** (2012). Tracing Knowledge Evolution in Online Forums. *Words and Networks: Language Use in Socio-Technical Networks Workshop at ACM Web Science Conference*,. Retrieved from <http://seangoggins.net/sites/default/files/Introne%20&%20Goggins%202012.pdf>
6. Valetto, G., Blincoe, K., **Goggins, S.** (2012). Actionable Identification of Emergent Teams in Software Development Virtual Organizations. *Third Annual Workshop on Recommendation Systems for Software Engineering (RSSE)*, Geneva, Switzerland.
7. Mascaro, C. and **Goggins, S.** (2011). Challenges for National Civic Engagement in the United States. Government and Citizens Engagement Workshop, Communities and Technologies 2011. To Appear in the Proceedings of International Reports on Socio-Informatics.
8. Reynolds, R. and **Goggins, S.** (2011). Analyzing student wiki interactions at multiple levels of analysis within an online social network of game design learning: Team, school, and page-level findings. Data Workshop on CSCL, CSCL 2011, Hong Kong.
9. **Goggins, S.** & Mascaro, C. (2011). Social Media Discourse and Culture: A Proposal for Comparative Informatics Research. 2nd International Workshop on Comparative Informatics, Copenhagen, Denmark, December 9-10, 2011.
10. **Goggins, S.**, & Valetto, G. (2010). An Interaction Warehouse for Workgroup Development Pattern Identification. Proceedings from IFIP 9.1 Workshop, St. Louis, MO.
11. Mascaro, C. M., and **Goggins, S. P.** (2010) Collaborative Information Seeking in an Online Political Group Environment. Workshop on Collaborative Information Behavior, held in Conjunction with ACM Group 2010, Sanibel Island, FL
12. **Goggins, S.**, Valetto, P., & Blincoe, K. (2010). From Task Context to Group Awareness. Proceedings from Context-Adaptive Interaction for Collaborative Work, in Conjunction with CHI 2010, Atlanta, GA.
13. **Goggins, S.**, Erdelez, S. (2009) “Information Behavior in Online Groups”, Paper Presented at the 2009 SIGUSE Symposium, Vancouver, BC.
14. (Full Length Workshop Paper) **Goggins, S.** (2008), “Attributes of Group Structure Relative to Online Group Development”, presented at IFIP 9.1 Workshop on Changing Work, Changing Technology, held at CSCW ’08 in San Diego, CA.
15. **Goggins, S.** (2008). “HIB and HCI: Single, Married or Divorced?”, Paper Presented at the 2008 SIGUSE Symposium, 2008, Columbus, OH.

16. **Goggins, S.** (2007). "Activity Theory and Design Research in HCI," Paper presented at the CHI 2007, San Jose, CA.
17. **Goggins, S.** (2007). "Designing Tools to Connect to People Near Me: Unless That's not what I want Right Now," Paper presented at the SIGUSE, 2007, Milwaukee, WI.
18. **Goggins, S.** (2007). "Exploring Small Group Collaboration and Creativity in 3D Virtual Worlds," Paper presented at the ACM Group 2007, Sanibel Island, FL.
19. **Goggins, S.** (2006). "Implications of Group Size on Activity Awareness Tools and Consideration of Information Foraging Theory," Paper presented at the CSCW 2006, Banff, Alberta, Canada.
20. **Goggins, S.** (2003) "Agile Methods Applied in Medical Device Manufacturing," Invited Workshop on Agile Software Development Methods, Agile Alliance, Banff, Alberta, Canada.

Peer Reviewed Conference Posters

1. Magee, R. M., Sebastian, M., Novak, A., Mascaro, C. M., Black, A., & **Goggins, S. P.** (2013). # TwitterPlay: a case study of fan roleplaying online. Proceedings of the 2013 conference on Computer supported cooperative work companion.
2. Mascaro, C., **Goggins, S.** & McCain, K. (2011) The Roots of Social Informatics Through Tri-Citation Analysis of Rob Kling's Oeuvre. ASIST 2011, October 9 – 12, 2011, New Orleans, LA. (Poster)
3. **Goggins, S.** Altenmueller-Lewis, U. (2011). Collaborative Information Behavior With Free Information Tools: The Case of an Interdisciplinary Design Charrette. *ASIS&T 2011*, Pittsburgh, PA.
4. Mascaro, C. and **Goggins, S.** (2011). Coffee or Tea: The Emergence of Networks of Discourse in Two Online Political Groups. *Journal of Information Technology and Politics: The Future of Computational Social Science Conference*, May 16-17, 2011 Seattle, Washington, USA.
5. Laffey, J., Hong, R.-Y., Galyen, K., **Goggins, S.**, & Amelung, C. (2009). Context Aware Activity Notification System: Supporting CSCL. Paper presented at the CSCL, 2009, Rhodes, Greece.
6. Stichter, J., Schmidt, C., Schmidt, M., **Goggins, S.**, Babuich, R., & Laffey, J. (2009). iSocial: A 3-D Virtual Learning Environment for Enhanced Social Interaction and Development of Social Competence. Paper presented at the CSCL, 2009, Rhodes, Greece.
7. **Goggins, S.**, Guajardo, J., Schmidt, M., Moore, J. L., Christ, S., & Laffey, J. (2008). "Utilizing an Eye Tracking Device to Design Virtual Environments for Individuals with Autism Spectrum Disorder," Poster presented at the American Education Research Association, 2008, New York, NY.
8. **Goggins, S.**, Kocemba, A., Zhang, Y., Roberg-Perez, K., Klee, E., Pickart M., Keele, J, Harhay, J., Wray, J., Snelling, W., Ellis, L., Ekker, S., Largaespada, D., Carlis, J., Fahrenkrug, S. (2003) "A Logical Data Model for Comparative Vertebrate Genome Research," University of Minnesota Consortium on Bioinformatics Research, 2003, Minneapolis, MN.

Peer Reviewed Conference Workshops Organized

1. Postner, L., Burdge, D., Jackson, S., Ellis, H., Hislop, G., & Goggins, S. (2015). Using humanitarian free and open source software to introduce computing for the social good. ACM SIGCE Conference, Kansas City, MO.
2. Morgan, J. T., Halfaker, A., Taraborelli, D., Hwang, T., & **Goggins, S.** (2015). Advancing an Industry/Academic Partnership Model for Open Collaboration Research. In *Proceedings of the 18th ACM Conference Companion on Computer Supported Cooperative Work & Social Computing* (pp. 293–296). ACM.
3. Allen, W., Arora, P., Erickson, I., **Goggins, S.**, Shankar, K., Yew, J. (2014). CSST iConference Workshop: Breaking Down and Building Up: Accelerating Sociotech Scholarship in the iSchool Community, iConference 2014, Berlin, Germany.
4. **Goggins, S.**, Wiggins, A., Winter, S., Butler, B (2014) OCData Hackathon: Online Communities Data Hackathon at ACM CSCW 2014, Baltimore, MD
5. **Goggins, S.**, Jahnke, I., & Herrmann, T. (2013). *Computer-Supported Collaborative Learning at Work: CSCL@ Work-Bridging Learning and Work*. CSCL 2013 conference proceedings volume 2: short papers, panels, posters, demos & community events.
6. GW Hislop, HJC Ellis, D Burdge, **S Goggins**, L Postner, S Jackson (2013). Encouraging faculty & student involvement in humanitarian free and open source software (HFOSS) Proceeding of the 44th ACM technical symposium on Computer science education
7. **Goggins, S.**, Mascaro, C., McDonald, N., Black, A., & Valetto, G. (2013). Big Social Data for Social and Information Scientists, iConference 2013.
8. **Goggins, S.**, Mascaro, C., Thiry, E. (2013) Technologically Mediated Relationship Creation and Maintenance, Hawaii International Conference on System Science 2013.
9. **Goggins, S.**, Jahnke, I. Wulf, V. (2012). CSCL@ work revisited-beyond CSCL and CSCW?: are there key design principles for computer supported collaborative learning at the workplace? ACM Group 2012, Sanibel Island, FL.
10. Introne, J., Levy, K., Munson, S., **Goggins, S.**, Wash, R., Aragon, C. (2012). Design, Influence and Social Technologies. ACM CSCW Conference, 2012.
11. Mascaro, C., Magee, R., Thiry, E., **Goggins, S.** (2012). Its OK to Look: The Interdisciplinary Agenda of Online Dating Research. iSchools Conference, 2012.
12. Forte, A., **Goggins, S.**, Sawyer, S., Rotman, D., Twidale, M., Sims, C., Shankar, K., Butler, B., Panciera, K., Mentis, HM (2011). Socio-Technical Research: Connecting Disciplines in the iSchools. iSchools Conference, 2011.
13. **Goggins, S.**, Forte, A., Sawyer, S., Rotman, D., Twidale, M., Sims, C., Shankar, K., Butler, B., Panciera, K., Mentis, HM (2011). Sharing the Socio-Technical Workshop Results: An Alternative Event with Alternate Endings. iSchools Conference, 2011.
14. **Goggins, S.** & Jahnke, I (2010). Computer Supported Collaborative Learning (CSCL) at Work. ACM Group Conference, 2010.
15. Jackson, S., Ribes, D., **Goggins, S.** (2010). Keywords of Socio-Technical Systems Research. iConference, 2010.

16. Floyd, I., Gurzick, D., Sweeney, M., Haythornthwaite, C., Brock, A., Sawyer, S., & **Goggins, S.** (2009) Engaging Multidisciplinarity in Sociotechnical Internet Research: A hands-on workshop. Workshop held at Internet Research 10 (AoIR). Milwaukee, WI, USA.
17. **Goggins, S.**, Floyd, I., Sawyer, S., Grudin, J., Dabbish, L., Erickson, I. et al. (2009). The Science of Socio-Technical Systems in iSchools. iConference, 2009.

Invited Talks

1. **Goggins, S.** (2015) “Group Informatics for Mobile Learning Environments”, Symposium on Learning Sciences, Umeå, Sweden, June, 2015.
2. **Goggins, S.** (2015) “Building Open Online Collaboration Data Factories”, International Symposium on Data Standards in Open Online Community Research, Copenhagen, June, 2015.
3. **Goggins, S.** (2014) “Connecting Participation, Affiliation and Performance in Virtual Organizations: Examples from GitHub and MOOC Analytics”, University of Michigan Social Computing Research Group, Ann Arbor, MI, September 29, 2014.
4. **Goggins, S.** (2014) “Panel: Crowdsourcing Crisis Response: The Boston Marathon Bombing” ICSCRAM 2014, State College, PA, May 20, 2014.
5. **Goggins, S.** (2014) “Finding the Heartbeat in Virtual Organizations: The Example of Forking Repositories on GitHub”, ETH Zürich Complex Systems Research Group, March 17, 2014.
6. **Goggins, S.** (2014) “Panel: The Ethos and Pragmatics of Data Sharing”, ACM CSCW Conference, Baltimore, MD, Wednesday, February 19, 2014.
7. **Goggins, S.** (2014) “Structural Fluidity and Performance in Virtual Organizations: Contrasting (and finding commonality) Between Disaster Scenarios and Open Source Software Projects”, University of Indiana, Bloomington, IN, February 14, 2014.
8. **Goggins, S.** (2013) “Structural Fluidity and Performance in Virtual Software Organizations”, University of Nebraska, Omaha, November 1, 2013.
9. **Goggins, S.** (2013) “Group Informatics: A Methodological Approach for Information Science Research”, University of Wisconsin, June, 11, 2013.
10. **Goggins, S.** (2013) “Connecting Theory to Social Technology Platforms: A Framework For Understanding Influence in Context”, University of Washington, Omaha, May 23, 2013.
11. **Goggins, S.** (2013) “Group Informatics and Computational Social Science”, Developing Multi-Disciplinary Measurement Approaches for Shared Cognition, Institute for Simulation and Training, Orlando, FL, February 20, 2013.
12. **Goggins, S.** (2012) “Applying Computational Linguistics in R”, Philly R Users Group, Philadelphia, PA, September 27, 2012.
13. **Goggins, S.** (2011) “Did you come here alone? Group Structural Awareness and Invisible Leadership SNAGs in Social Media Research”. University of Bergen. Bergen, Norway, October 27, 2011.
14. **Goggins, S.** (2011) “Invisible Leadership SNAGs in our Understanding of Social Media”, University College Dublin, Dublin, Ireland. October 21, 2011.

15. **Goggins, S.** (2011) "CSCL@Work: A Research Program". European Conference on Computer Supported Cooperative Work. Aarhus, Denmark. September 27, 2011.
16. **Goggins, S.** (2011) "Group Awareness, Group Informatics & CSCL@Work", Umeå University, September 23rd, 2011.
17. **Goggins, S.** (2010) "Harvesting & Analyzing Interaction Data in R: The Case of MyLyn", at Columbia University to the New York City R Users Group", September 2, 2010.
18. **Goggins, S.** (2009) "Completely Online Groups: An Introduction", to the GroupLENS Research Group at the University of Minnesota, April 30, 2009.

Other Peer Reviewed Papers and Technical Reports

1. Morgan, J. T., Halfaker, A., Taraborelli, D., **Goggins, S.**, Hwang, T., & Computing, S. (2015). *Bridging the data divide*.
2. **Goggins, S.** (2012). A Short History of Group Informatics. *Available at SSRN 2120428*,. Retrieved from <http://seangoggins.net/sites/default/files/SSRN-id2120428.pdf>
3. Mascaro, C., & **Goggins, S.** (2012). Twitter as Virtual Town Square: Citizen Engagement During a Nationally Televised Republican Primary Debate. *APSA 2012 Annual Meeting Paper*.
4. Stahl, G., Ou, J. X., Cakir, M. P., Weimar, S., & **Goggins, S.** (2010). Multi-User Support for Virtual Geogebra Teams. Proceedings from GeoGebra NA2010, Ithica, NY.
5. Stahl, G., Rose, C. P., & **Goggins, S.** (2010). *Analyzing the discourse of GeoGebra collaborations*. Proceedings from GeoGebra NA 2010, Ithica, NY.
6. **Goggins, S.** (2005) "Application of Wikis, Blogs and Portals to Community Development," Data Management Association, St. Louis Chapter.
7. **Goggins, S.** (2004) "JSR-168 & Java Portals," Saint Louis, MO, Java Users Group.
8. **Goggins, S.** (2004) "Analysis and Design of Complex Software Supersystems," Data Management Association International, 2004, Los Angeles, CA.
9. **Goggins, S.** (2002) "Agile Methods in Regulated Industries," Minneapolis Java User Group.
10. **Goggins, S.** (2000) "The Oracle Standby Database - The Poor Man's Failover Solution," Peoplesoft User Conference, 2000, San Francisco, CA.

Awarded Grants

1. Distance Learning through Game-based 3D Virtual Learning Environments: Mission Hydro Science. (Co-PI) U.S. Department of Education Investing in Education (i3), \$2,728,506. [01/01/2015-12/31/2019](#).
2. Mission HydroSci: A Virtual Environment for Next Generation Science Learning. (Co-PI). U.S. Department of Education Institute of Education Sciences (IES). \$1,499,999. [08/01/2015-07/31/2018](#).

3. NSF SAVI (PI) – Fostering New Collaborations in Open Online Community Data Research: Prototyping an Open Collaboration Data Factory, \$194,950, 9/1/2014-8/31/2016.
4. Workshop: Support for doctoral students and junior researchers at The Digital Societies and Social Technologies Summer Institute, \$30,000, 5/2/2014-4/30/2015.
5. NSF VOSS Research Experience for Undergraduates (PI) Proposal for Involving Undergraduate Students in The Structural Fluidity & Performance in Virtual Organizations Project, \$15,000, 9/2013-8/2015.
6. NSF VOSS (PI) Toward a Context Adaptive Theory of the Relationship Between Structural Fluidity and Virtual Organization Performance, \$400,000, 9/2012-8/2015.
7. NSF DUE (CO-PI) Collaborative Research: OpenFE - Developing Faculty Expertise and Creating Learning Materials for Humanitarian Free and Open Source Software, \$290,000, 9/2012-8/2014.
8. Group Cognition: Office of Naval Research, CO-PI with Gerry Stahl (PI) and Carolyn Rose (CO-PI), \$250,000, 9/2009-12/2011
9. ONR Grant to Analyze Leadership Online, PI for Drexel, with PI Carolyn Rose at Carnegie Mellon (\$895,000; Drexel Portion, \$190,000), 9/2010-12/2013.
10. NSF DRK12 (CO-PI) Collaborative Research: Computer-Supported Math Discourse Among Teachers and Students (NSF Co-PI), \$1,900,000, 9/2011-9/2016.

Grant Proposals Currently Under Review

1. Sloan Foundation: Measuring the Health of Open Source Software Communities, \$100,000, 5/1/2016-4/30/2017

Professional Activities

External Service

- Posters Chair, ACM CSCW 2017
- Accessibility Chair, ACM CHI 2017
- Program Committee Member, Learning Analytics 2015 Conference (LAK 15)
- Institute Co-Chair, for the Consortium for the Science of Sociotechnical Systems (CSST) summer institute for mentoring late stage doctoral students and early career faculty pursuing interdisciplinary research careers – Located at Mizzou, Summer 2014
- General Conference Co-Chair, ACM Group 2014
- Social Media Chair, Learning Analytics 2014
- Industry Liaison, ACM CSCW 2014, 2015
- Director, NSF Research Coordination Network for Socio-Technical Studies, 2011-2015
- Program Committee, ACM CSCW 2013
- Program Committee, ISSOME 2013
- Publicity Co-Chair, ACM Group 2012
- ACM Group Program Committee Member, 2010

- ACM Group Program Committee Member, 2012
- ACM Group Program Committee Member, 2014
- iConference Program Committee, 2012
- iConference Program Committee, 2011
- iConference organizing committee 2010
- Poster Chair - ACM Group 2010
- Communications Director, SIGUSE, 2010-2011
- Social Interaction Director - CSCW 2012
- Leadership Team - Consortium for the Science of Socio-Technical Systems

Reviewing

- ACM CSCW 2016
- ACM CHI 2016
- ACM Group 2016
- NSF 2014
- ACM CSCW 2015
- The Information Society
- ACM CSCW 2014
- ACM CHI 2014
- Learning Analytics Conference, 2014
- Hawaii International Conference on Systems Science, 2012
- ACM CHI 2013
- ACM Group 2012
- ACM CHI 2012
- Journal of the American Society for Information Science & Technology
- International Journal of Computer Supported Collaborative Learning
- ASIS&T SIGSI, Annual Best Paper in Social Informatics Reviewer
- ACM Conference on Computer Supported Cooperative Work, 2011
- ACM Conference on Computer Supported Cooperative Work, 2012
- Journal of the American Society for Information Science & Technology
- International Journal of Computer Supported Collaborative Learning
- ASIS&T 2010
- ACM Group 2010
- IEEE Social Computing 2010
- Information Technology & People
- ACM CHI
- IEEE Transactions on Systems, Man and Cybernetics
- Hawaii International Conference on Systems Science, 2011
- NSF DRK12 Review Panel
- NSF Network Science Review Panel
- NSF Social Computational Systems (SoCS) Review Panel

Missouri Internal Service

- Director of new DSA Masters Program
- Proposal Lead for developing the new DSA Masters degree through internal MU processes, leveraging funding from a Mizzou Advantage grant

- Initiated and led the SISLT PhD Writing Group. Continuing to develop this group through a formal 1 credit course required of all newly admitted SISLT PhD students.
- Co-Developed a proposal for a Data Science and Analytics (DSA) Masters degree through an Mizzou Advantage grant in collaboration with the Missouri Informatics Institute (MUII), SISLT, The School of Journalism and the Departments of Computer Science and Computer Engineering in the College of Engineering.
- Led the MU Informatics Institute's PhD Seminar in Informatics
- Member of Associate Dean for Research Search Committee
- Chair, Curriculum Committee at the University of Missouri Informatics Institute

Drexel Internal Service

- Active participant in the committee for undergraduate learning, including evaluation of courses, participation in industry workforce development partnerships and initiating discussion around the design of a new undergraduate curriculum
- Supervised to Masters Level COOP Students
- Supervised a Summer STAR Student
- Drexel iSchool Search Committee - Reviewed over 100 candidate applications, participated in 12 on campus interviews lasting more than half of a day, had dinner with 4 candidates and spent a 1/2 day with two highly sought after candidates. I also participated in conference screening interviews at ASIS&T and ALISE
- Drexel iSchool Research Poster Day Judge
- Supervised two Summer Star Scholars, resulting in two successful posters at the Star Scholar Poster Day
- Drexel University Research Poster Day Judge
- Participated in iSchool Sponsored industry banquet and recognition ceremony
- Presented analysis of curriculum revisions required for INFO 655 to the MSIS Curriculum Subcommittee
- Working with the MSIS Curriculum Subcommittee, presented and received faculty approval for revision of INFO 616 course ERD
- Working with Department of Architecture and Interiors, introduced social computing technology to the 2010 Architecture Charrette.
- Supervised two Masters Student Cooperative Work Assignments

Courses Taught

2015. IS_LT 9468 – Learning and Task Analysis, IS_LT 9410 – Seminar in Learning Analytics

2014. IS_LT 9410 – Seminar in Learning Analytics

2013. INFO 480 – Introduction to Data Science, IS_LT 9468 – Learning and Task Analysis

2012. INFO 153, 154 – Systems Thinking in Software Engineering Sequence, INFO 430, Introduction to Data Science.

2011. INFO 627, Software Requirements Engineering and INFO 616, Social Computing Design for the Workplace (Average Instructor Rating 9.33/10).

2010. INFO 420, Software Project Management, INFO 627, & Info 616 (Average Instructor Rating 4.83/5).

2009. INFO 655, Intro to J2EE Web Development for non-programmers

Academic Honors

- Nominated: Best Social Informatics Paper of 2013 for Goggins & Mascaro (2013) in The Information Society; Notification by August 31, 2014.
- Emerald Publishing Outstanding Paper of 2012 for Goggins, Laffey & Gallagher (2011) in Information Technology & People.
- Outstanding Freshman STAR Mentor Award, Drexel University, 2011
- Contributor, NSF Inaugural Institute for the Science of Socio-Technical Systems, University of Michigan, July, 2008
- Best Paper Award, University of California-Irvine Graduate Student Research Symposium, Institute for Software Research, June, 2008
- Graduation Speaker, University Of Minnesota Graduate School, Center for the Development of Technological Leadership, May, 2003

Software Produced and Contributed to Through Funded Research

Software is a regular part of the research that I do. I contribute to, fund, design and lead a wide range of software development throughout each year. In addition to projects I have led the development for, I have made contributions to a number of open source projects as well. An overview of my software contributions is available at my GitHub Repositories:

<https://github.com/orgs/The-Art-of-Big-Social-Data/>

<https://github.com/sgoggins>

The way GitHub works is that my repositories are located here. Each Repository represents a software product. Some of the repositories are forked from other authors, which is how one makes a contribution to a project one does not control.

Specific Software Developed includes:

1. (2015) Twitter Topic Miner
2. (2015) Open Online Community Data Manifest
3. (2015) The TwitterWhisperer
4. (2015) Open Collaboration Data Factories Engine
5. (2015) Globaloria Analysis Engine
6. (2014) Retracted Cite Seer with Eva Petakovic and Aleksandra Smith
7. (2014) WMD_Analytics
8. (2014) Finding Top GitHub Followers with Kelly Blincoe
9. (2014) Twitter text processing in Haskell with Ian Graves

10. (2014) Temporal Analysis of Twitter Data
11. (2014) Forum Analysis Engine
12. (2014) RTeva with Josh Introne and Ryan Babuich
13. (2014) GDriveGoggles with Phil Maconi
14. (2013) TwitterGoggles with Phil Maconi
15. (2013) REDDITGoggles with Phil Maconi
16. (2013) Introduction to “Big Social Data” Research Tools for Social Scientists.
17. (2013) VMT With Geogebra Analytics, with Wanli Xing and Gerry Stahl
18. (2012) Tatiana for small group analysis, with Gregory Dyke
19. (2011) Twitter Zombie for Twitter Data Collection and Management with Alan Black

Students Supervised (* shows successful dissertation defense/graduation)

Wanli Xing, PhD Advisor, University of Missouri, 2014-present

Maryshannon Williams, Doctoral Committee Member, University of Missouri, 2014-present

Hongfei Cao, Doctoral Committee Member, University of Missouri, 2014-present

Ian Graves, Doctoral Committee Member, University of Missouri, 2014-present

Alan Black, PhD Student, Advisor, Drexel University, 2012-2013

Nora McDonald, PhD Student, Advisor, Drexel University, 2012-2013

*Christopher Mascaro, Advisor, PhD Student, Drexel University, 2010-present

*Warren Allen, Doctoral Committee Member, 2010-2013

*Kelly Blincoe, Doctoral Committee Member, 2010-2014

Nina Multak, Doctoral Committee Member, 2010-present

Rachel Magee, Doctoral Committee Member, 2010-present

*Alison Novak, Doctoral Committee Member, 2010-present

*Michael Gallagher, Masters Student, Drexel University, 2009-2011

*Connie Lin, Undergraduate Summer STAR student, 2011

*Colin Canny, Undergraduate Summer STAR student, 2010

*Kevin Walton, Undergraduate Summer STAR student, 2010

*Anusha Shetty, COOP Masters Student, 2010

*Kanupria Singh, COOP Masters Student, 2010

Memberships

2007-(current) – Association for Information Science and Technology (ASIS&T)

2004-2014 – Project Management Institute (PMI)

2001-(current) – Association for Computing Machinery (ACM)

2001-(current) – Institute for Electrical and Electronics Engineers (IEEE)