

Sean P. Goggins

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Columbia, MO 65203 Outdoors@acm.org

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

M.S., Software Engineering University of Minnesota, Department of Computer Science, College of Engineering

- Thesis: A Logical Data Model for Comparative Vertebrate Genome Research

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

2020-Present. Full Professor with Tenure, Department of Electrical Engineering and Computer Science, University of Missouri

2016-2020. Associate Professor with Tenure, Department of Electrical Engineering and Computer Science, University of Missouri

2013-2018. Director, Data Science and Analytics Master's Program, University of Missouri.

2015-2016. 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.

*Post Tenure Publication

My name is in **bold**

Student names are in *italics*

+Indicates a publication with collaborators outside of my lab and institution at the time of publication

Publications

Peer-Reviewed Journal Articles

1. Lu, W., He, H., Yu, F., Laffey, J., Urban, A., Griffin, J., Sadler, T. D., & Goggins, S. (2025). Lessons upon Dislikes: Educational Game Design Principles from Players' Negative Feedback. *Immersive Learning Research-Academic*.
2. Lu, W., Griffin, J., Sadler, T. D., Laffey, J., & **Goggins, S. P.** (2025). Game-Based Learning Prediction Model Construction: Towards Validated Stealth Assessment Implementation. *Journal of Learning Analytics, Accepted*.
3. *+**Goggins, S.**, Germonprez, M., Lumbard, K., Howison, J., Ram, K., & Du, C. (2025). Open source software field research: Spanning social and practice networks for re-entering the field. *First Monday*.
4. *Lu, W., Laffey, J., Sadler, T., Griffin, J., & **Goggins, S.** (2024). A Scalable, Flexible, and Interpretable Analytic Pipeline for Stealth Assessment in Complex Digital Game-Based Learning Environments: Towards Generalizability. *Journal of Educational Data Mining*, 16(2), 214–303.
<https://doi.org/10.5281/zenodo.14503598>
5. *+Psomopoulos, F., Erdmann, C., Capella-Gutierrez, S., Amodeo, S., Barker, M., Bos, C., Chue Hong, N., Goble, C., **Goggins, S.**, Hartley, K., Katz, D. S., Ledmyr, H., Manola, N., Nielsen, L. H., Sufi, S., Tedds, J., Treloar, A., Van der Walt, A., & Windhager, J. (2024). *Building the future of research software as a first-class citizen in science; a global perspective*. Zenodo. <https://doi.org/10.5281/zenodo.13915755>
6. *+Karim, S. R. U., Bala, D., Rasul, R. A., & **Goggins, S.** (2024). RGFSAAMNet: An interpretable COVID-19 detection and classification by using the deep residual network with global feature fusion and attention mechanism. *medRxiv*, 2024–10.
7. *+Lumbard, K., Germonprez, M., & **Goggins, S.** (2024). An empirical investigation of social comparison and open source community health. *Information Systems Journal*, 34(2), 499–532. <https://doi.org/10.1111/isj.12485>
8. *+**Goggins, S. P.**, Lumbard, K., Germonprez, M., Du, C., Ram, K., & Howison, J. (2024). *Open Source Software Field Research: Spanning Social and Practice Networks for Re-Entering the Field*. <http://arxiv.org/abs/2402.14172>
9. *Lu, W., Griffin, J., Sadler, T. D., Laffey, J., & **Goggins, S. P.** (2023). Serious Game Analytics by Design: Feature Generation and Selection Using Game Telemetry and Game Metrics: Toward Predictive Model Construction. *Journal of Learning Analytics*, 10(1), 168–188. <https://doi.org/10.18608/jla.2023.7681>
10. *+**Goggins, S.**, Lu, W., Sarma, A., & Chatterjee, A. (2022). Contributing to Large, Corporatized Open-Source Software: Observations and Questions. *The 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 30(2), 18–34.
11. *+**Goggins, S.**, Lumbard, K., & Germonprez, M. (2021). Augur: Architecture for Capturing, Reshaping, and Socially Contextualizing Open Source Software Communities. *ACM SoHeal Conference*. International Conference on Software Engineering, Virtual. <https://doi.org/DOI:10.5281/zenodo.4627236>

*Post Tenure Publication

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12. *+**Goggins, S.**, *Lumbard, K.*, & Germonprez, M. (2021). Augur: Architecture for Capturing, Reshaping, and Socially Contextualizing Open Source Software Communities. *ACM SoHeal Conference, Proceedings of the ACM International Conference on Software Engineering, Virtual*. <https://doi.org/DOI:10.5281/zenodo.4627236>
13. *+**Goggins, S. P.**, Germonprez, M., & *Lumbard, K.* (2021). Making Open Source Project Health Transparent. *Computer*, 54(08), 104–111. <https://doi.org/10.1109/MC.2021.3084015>
14. +*Borge, M., *Shiou, Y.*, & **Goggins, S.** (2020). "Using Social Networking Sites as Learning Tools." *Educational Technology Research and Development*, Accepted.
15. +*Introne, J., Semaan, B., Erickson, I., & **Goggins, S.** (2020). Designing Sustainable Online Support: Examining the Effects of Design Change in Forty-Nine Online Health Support Communities. *JASIS&T*, 70(8).
16. +*Germonprez, M., Lipps, J., & **Goggins, S.** (2019). The Strength of a Rising Tide: Open Source's Steady Transformation. *First Monday*, 24(7).
17. +**Lumbard, Kevin; Ahuja, Vinod Kumar; Germonprez, Matt; and Goggins, Sean*, "Something to talk about: Exploring open source design spaces" (2019). MWAIIS 2019 Proceedings, 18. <https://aisel.aisnet.org/mwais2019/18>
18. +*Introne, J., & **Goggins, S.** (2019). Advice Reification, Learning, and Emergent Collective Intelligence in Online Health Support Communities. *Computers & Human Behavior*, Accepted.
19. +*Germonprez, M., *Link, G. J.*, *Lumbard, K.*, & **Goggins, S.** (2018). Eight observations and 24 research questions about open source projects: illuminating new realities. *Proceedings of the ACM on Human-Computer Interaction*, 2(CSCW), 57.
20. +**Link, G.*, *Lumbard, K.*, *Damen, N.*, *Rosser, H.*, *Germonprez, M.* **Goggins, S.**, *Wiggins, A.*, *Ahuja, V.*, *Brier, J.*, *Cphoon, H.*, *Halfaker, A.*, *Howison, J.*, *Marti, D.*, *Newman, G.*, *Osterlund, C.*, *Paik, R.*, *Rother, B.*, and *Schecter, A.* (2018). Open Community Health: Workshop Report, *Journal of Peer Production*, Accepted for Publication.
21. +**Xing, W.*, **Goggins, S.**, & *Introne, J.* (2018). Quantifying the Effect of Informational Support on Membership Retention in Online Communities through Large-Scale Data Analytics. *Computers in Human Behavior*, 86, 227–234.
22. +**Link, Georg JP and Lumbard, Kevin and Conboy, Kieran and Feldman, Michael and Feller, Joseph and George, Jordana and Germonprez, Matt and Goggins, Sean and Jeske, Debora and Kiely, Gaye* (2017). Contemporary Issues of Open Data in Information Systems Research: Considerations and Recommendations. *Communications of the Association for Information Systems* 41: 587–610.
23. +**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.
24. +**Fleischmann, K. R.*, *Worrall, A.*, *Anderson, T. D.*, **Goggins, S.**, & *Burnett, G.* (2016). SIG CON Research Symposium:[Insert Title Here: Make Sure to Satisfy Titular Colonicity]. *Bulletin of the Association for Information Science and Technology*, 42(3), 33–35.

*Post Tenure Publication

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+Indicates a publication with collaborators outside of my lab and institution at the time of publication

25. ***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*, 32(3), 244-266.
26. ***Goggins, S.**, & Xing, W. (2016). Building models explaining student participation behavior in asynchronous online discussion. *Computers & Education*, 94, 241–251.
27. *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.
28. *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.
29. *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.
30. +*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.
31. ***Goggins, S.**, Xing, W., Chen, X., Chen, B., & Wadholm, B. (2015). Learning Analytics at “ Small” Scale: Exploring a Complexity-Grounded Model for Assessment Automation. *Journal of Universal Computer Science*, 21(1), 66–92.
32. ***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.
33. **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.
34. 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.
35. **Goggins, S.**, & Petakovic, E. (2014). Connecting theory to social technology platforms a framework for measuring influence in context. *American Behavioral Scientist*, 0002764214527093.
36. McDonald, N., Blincoe, K., Petakovic, E., & **Goggins, S.** (2014). Modeling Distributed Collaboration on GitHub. *Advances in Complex Systems (ACS)*, 17(07).
37. **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>
38. **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

*Post Tenure Publication

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39. **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
40. +**Goggins, S.**, & Jahnke, I. (2012). CSCL@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.
41. *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).
42. +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>
43. **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.
44. +**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).
45. 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*.
46. Laffey, J., Amelung, C., & **Goggins, S.** (2009). "A Context Awareness System for Online Learning: Design Based Research," *International Journal on E-Learning*, 8(3).
47. *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*.
48. *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 Papers¹

1. Goggins, S. (2023). Open Source Software Toxicity and CHAOSS. *Combating Toxicity, Harassment, and Abuse in Online Social Spaces: A Workshop at CHI 2023*. ACM SIGCHI, Hamburg, Germany. <https://combatingonlinetoxicity.sites.uu.nl/>
2. +* Lumbard, K., Buhman, A., Wethor, G. E., Hale, M., **Goggins, S.**, & Germonprez, M. (2020). Welcome? Investigating the reception of new contributors to organizational-communal open source software projects. *AMCIS 2020 Proceedings*, 14.

¹ The HCI, Social Computing and Data Scientific communities I publish in historically rely on peer reviewed conference publications as the premiere venue for research. This is slowly shifting as ACM moves conference publications into Journals.

*Post Tenure Publication

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3. +* Reeves, T., Romine, W., Laffey, J., Sadler, T., & **Goggins, S.** (2020). Distance Learning through Game-Based 3D Virtual Learning Environments: Mission Hydro Science. Evaluation Report for Mission HydroSci. *ERIC*.
4. +* Laffey, J., Griffin, J., Sigoloff, J., Sadler, T., **Goggins, S.**, Womack, A., Wulff, E., & Lander, S. (2019). Mission HydroSci: Meeting Learning Standards Through Gameplay. *Proceedings of the International Conference on Computer Supported Collaborative Learning*, 4.
5. +* Laffey, J., Griffin, J., Sigoloff, J., Sadler, T., **Goggins, S.**, Womack, A., Wulff, E., & Lander, S. (2019). Mission HydroSci: Meeting Learning Standards Through Gameplay Mission. *Proceedings of the 41st Conference of the Association for Educational Communications and Technology*, 41, 314–324.
6. *Ahuja, V., Marti, D., Link, G., Germonprez, M., and **Goggins, S.** (2018). How to Measure the Impact of Your Open Source Project, *Opensource.com*, Available at: <https://opensource.com/article/18/5/metrics-project-success>.
7. +* **Sean Goggins**, Matt Germonprez, *AJ Million*, Aaron Halfaker, and Libby Hemphill. (2017). Advancing the OCDX: Building Social Computing Infrastructure. In *Companion of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing*, 421–424. Acceptance Rate 30%
8. +*Link, G., Lumbar, K., Germonprez, M., and **Goggins, S.** (2017). Advancing Open Online Community Science Practice: The Open Community Data Exchange, *MWAIS 2017*, Springfield, IL. Acceptance Rate 50%
9. +*Halfaker, A., Morgan, J., Pandian, Y., Thiry, E., Rand, W., Schuster, K., & **Goggins, SP.** (2016). Breaking into new Data-Spaces: Infrastructure for Open Community Science. In *Proceedings of the 19th ACM Conference on Computer Supported Cooperative Work and Social Computing Companion* (pp. 485–490). ACM. Acceptance Rate 30%
10. +*Link, G. J., Germonprez, M., **Goggins, S.**, Hemsley, J., Rand, B., & Squire, M. (2016). The Open Community Data Exchange: Advancing Data Sharing and Discovery in Open Online Community Science. Acceptance Rate 42%
11. *Mascaro, C., Agosto, D., & **Goggins, S. P.** (2016). One-Sided Conversations: The 2012 Presidential Election on Twitter. In *Proceedings of the 17th International Digital Government Research Conference on Digital Government Research* (pp. 112–121). ACM. Acceptance Rate 57%
12. *Mascaro, C., Agosto, D., & **Goggins, S. P.** (2016). The Method to the Madness: The 2012 United States Presidential Election Twitter Corpus. In *Proceedings of the 7th 2016 International Conference on Social Media & Society* (p. 15). ACM. Acceptance Rate 34%
13. +*Introne, J., Semaan, B., & **Goggins, S.** (2016). A Sociotechnical Mechanism for Online Support Provision. *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems*, 3559–3571. ACM. Acceptance Rate 27.3%
14. *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. Acceptance Rate 30%

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15. *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. Acceptance Rate 54%
16. *Xing, W., & **Goggins, S.** (2015). 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. Acceptance Rate 31%
17. *Xing, W., & Goggins, S. (2015). Student Assessment in Small Groups: A Spectral Clustering Model. *iConference 2015 Proceedings*. Acceptance Rate 30%
18. +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.
19. 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.
20. **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.
21. Black, A., Mascaro, C., Gallagher, M., **Goggins, S.** (2012). Twitter Zombie: Architecture for Capturing, Socially Transforming and Analyzing the Twittersphere. Sanibel Island, FL: ACM.
22. **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
23. 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.
24. Mascaro, C., Novak, A. & **Goggins, S.** (2012) *Shepherding and Censorship: Discourse Management in the Tea Party Patriots Facebook Group*. Accepted at HICSS, 2012.
25. 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
26. 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.
27. 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
28. Mascaro, C., & **Goggins, S.** (2011). *Brewing Up Citizen Engagement: The Coffee Party on Facebook*. Proceedings from Communities & Technologies, Brisbane, Australia.
29. **Goggins, S.**, & Laffey, J., Amelung, C. (2011). *Context Aware CSCL: Moving Toward Contextualized Analysis*. Proceedings from CSCL 2011, Hong Kong.

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30. **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.
31. **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.
32. **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.
33. **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.
34. **Goggins, S.**, & Erdelez, S. (2009). "HIB and HCI: Common Interests in Different Communities", Proceedings of the iConference, 2009, Chapel Hill, NC.
35. 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.
36. **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. Acceptance Rate, 17.4%
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.

Journal Papers Currently Under Review

1. ***Goggins, S.**, *Lumbard, Kevin, Ahuja, V.*, & Germonprez, M. (2025). Locating and Describing Collaborative Control in Corporate-Communal Open-Source Projects. *Journal of Information Science, Under Review.*
2. **Bain, J.*, **Goggins, S.**, & Walker, R. (2025). "Non-Linear Scaling of Diversity in Cities: Bayesian Analysis of Migrant Language Communities Across the United States." *Big Data and Society, Under Review.*
3. **Bain, J.*, **Goggins, S.**, & Walker, R. (2025). "The Border Effect: Analyzing the Geographic Relationship of Angry Immigration Tweets." *Scientific Reports, Under Review*

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Peer Reviewed Books

1. +*Ackerman, M., Prilla, M., Stary, C., Herrmann, T., & **Goggins, S.** (2017). *Designing Healthcare That Works: A Sociotechnical Approach*. New York, NY: Academic Press.
2. +*Matei, S., Jullien, N., & **Goggins, S.** (Eds.). (2017). *Big Data Factories: Collaborative Approaches*. New York, NY: Springer.
3. +**Goggins, S.**, Jahnke, I., & Wulf, V. (Eds.). (2013). *CSCL@Work: Computer Supported Collaborative Learning at Work*. New York: Springer.

Peer Reviewed Book Chapters

1. ***Goggins, S. P.**, Million, A., Link, G. J., Germonprez, M., & Schuster, K. (2017). The Open Community Data Exchange: Advancing Data Sharing and Discovery in Open Online Community Science. In *Big Data Factories* (pp. 23–35). Springer.
2. +*Herrmann, T., Ackerman, M. S., **Goggins, S. P.**, Stary, C., & Prilla, M. (2017).
3. Designing Health Care That Works—Socio-technical Conclusions. In *Designing Healthcare That Works* (pp. 187–203). Elsevier.
4. **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.
5. +**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.
6. +**Goggins, S. P.**, Jahnke, I., & Wulf, V. (2013). CSCL@ Work for Practitioners Computer-Supported Collaborative Learning at the Workplace. In (pp. 317–323). Springer.
7. +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.
8. +**Goggins S.** & Jahnke, I. (2013). Designing CSCL at Work: A Research Agenda. *CSCL@Work: Computer Supported Collaborative Learning at Work*.
9. 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*.
10. **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. ***Bain, J.**, & **Goggins, S.** (2018). Mining Linguistic Diversity as a Signal for Identifying Regions Likely to Adapt to the Changing Nature of Work. *Workshop on Work in the Age of Intelligent Machines*, 2. Sanibel Island, FL: ACM New York, NY, USA.

*Post Tenure Publication

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2. +**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.
3. +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.
4. **Goggins, S.** (2012). *Collaborative Big Social Data Research*. Proceedings from International Workshop on Social Business, Copenhagen, Denmark.
5. **Goggins, S. P.** (2012). *Group Informatics: A Multi-Domain Perspective on the Development of Teaching Analytics*. Proceedings from TaPTA Workshop at ECTEL, Saarbrücken, Germany.
6. +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.
7. 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.
8. *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.
9. +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.
10. **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.
11. **Goggins, S.**, & Valetto, G. (2010). An Interaction Warehouse for Workgroup Development Pattern Identification. Proceedings from IFIP 9.1 Workshop, St. Louis, MO.
12. *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
13. **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.
14. **Goggins, S.**, Erdelez, S. (2009) “Information Behavior in Online Groups”, Paper Presented at the 2009 SIGUSE Symposium, Vancouver, BC.
15. (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.
16. **Goggins, S.** (2008). “HIB and HCI: Single, Married or Divorced?”, Paper Presented at the 2008 SIGUSE Symposium, 2008, Columbus, OH.

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17. **Goggins, S.** (2007). "Activity Theory and Design Research in HCI," Paper presented at the CHI 2007, San Jose, CA.
18. **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.
19. **Goggins, S.** (2007). "Exploring Small Group Collaboration and Creativity in 3D Virtual Worlds," Paper presented at the ACM Group 2007, Sanibel Island, FL.
20. **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.
21. **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. *Laffey, J. M., Sadler, T. D., **Goggins, S. P.**, Griffin, J., & Babiuch, R. N. (2019). Mission HydroSci: Distance learning through game-Based 3D virtual learning environments. In *Virtual Reality in Education: Breakthroughs in Research and Practice* (pp. 623–643). IGI Global.
2. *James M Laffey, Joe Griffin, Justin Sigoloff, Sean Lander, Troy Sadler, **Sean Goggins**, So Mi Kim, Eric Wulff, and Andrew J Womack. (2017). Mission HydroSci: a progress report on a transformational role playing game for science learning. In *Proceedings of the 12th International Conference on the Foundations of Digital Games*, 47.
3. 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.
4. 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)
5. **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.
6. 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.
7. 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.
8. 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.

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9. **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
10. **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). It's 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.

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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 Multidisciplinary 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 and Keynotes

1. ***Goggins, S. (2023)** “Choosing Flowers to Water — Open-Source Software as a Gigantic Social Computing Metaverse”, University of Colorado, April, 2023
2. ***Goggins, S. (2019)** “Data Science, Artificial Intelligence and Machine Learning”, Central Intelligence Agency, Washington, D.C., October, 2019
3. ***Goggins, S. (2018)** “Your Data Can Make the World a Better Place: Here’s How. And Who to Trust”, ACM Mindtrek, Tampere University Finland, October, 2018
4. ***Goggins, S. (2017)** “Computational Intelligence Pipelines: Imagination and Reality”, Syracuse University, January, 2017.
5. ***Goggins, S. (2017)** “Computational Intelligence Pipelines: Imagination and Reality”, University of Hawaii, January, 2017.
6. ***Goggins, S. (2016)** “Building an Open Collaboration Data Factory”, Copenhagen Business School, November, 2016.
7. ***Goggins, S. (2015)** “Group Informatics for Mobile Learning Environments”, Symposium on Learning Sciences, Umeå, Sweden, June, 2015.
8. ***Goggins, S. (2015)** “Building Open Online Collaboration Data Factories”, International Symposium on Data Standards in Open Online Community Research, Copenhagen, June, 2015.
9. ***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.
10. **Goggins, S. (2014)** “Panel: Crowdsourcing Crisis Response: The Boston Marathon Bombing” ICSCRAM 2014, State College, PA, May 20, 2014.
11. **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.
12. **Goggins, S. (2014)** “Panel: The Ethos and Pragmatics of Data Sharing”, ACM CSCW Conference, Baltimore, MD, Wednesday, February 19, 2014.

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13. **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.
14. **Goggins, S.** (2013) "Structural Fluidity and Performance in Virtual Software Organizations", University of Nebraska, Omaha, November 1, 2013.
15. **Goggins, S.** (2013) "Group Informatics: A Methodological Approach for Information Science Research", University of Wisconsin, June, 11, 2013.
16. **Goggins, S.** (2013) "Connecting Theory to Social Technology Platforms: A Framework For Understanding Influence in Context", University of Washington, Omaha, May 23, 2013.
17. **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.
18. ***Goggins, S.** (2012) "Applying Computational Linguistics in R", Philly R Users Group, Philadelphia, PA, September 27, 2012.
19. **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.
20. **Goggins, S.** (2011) "Invisible Leadership SNAGs in our Understanding of Social Media", University College Dublin, Dublin, Ireland. October 21, 2011.
21. **Goggins, S.** (2011) "CSCL@Work: A Research Program". European Conference on Computer Supported Cooperative Work. Aarhus, Denmark. September 27, 2011.
22. **Goggins, S.** (2011) "Group Awareness, Group Informatics & CSCL@Work", Umeå University, September 23rd, 2011.
23. **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.
24. **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, Ithaca, NY.

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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. (2024-2026) Scientific Open Source Project Health and Sustainability, \$557,888, Wellcome Trust
2. (2023-2026) CHAOSS: Building Sustainability, \$1,227,067, Sloan Foundation
3. (2023-2025) Early Engagement in Open Source: Hello World, \$150,000, Ford Foundation
4. (2021-2025) Open Source Metrics and Machine Learning, \$181,000, Tides Foundation
5. *(2021-2022) [Augur Maintainer Support](#), \$50,000
6. *(2021-2025) Serious Game Analytics by Design: Feature Generation and Selection Using Game Telemetry and Game Metrics: Toward Predictive Model Construction, \$10,000,000, \$2,000,000/credit, 5 years/\$400,000 per year
7. +*Sloan Foundation: Measuring Health of Open Source Software Communities, \$900,000, 4/1/2020-6/30/2023
8. +*Sloan Foundation: Measuring Health of Open Source Software Communities, \$450,000, 4/1/2018-5/31/2020
9. +*Sloan Foundation: Measuring the Health of Open Source Software Communities, \$100,000, 2/1/2017-1/31/2018
10. ²*Training in Data Science and Analytics (Co-PI) National Geospatial Intelligence Agency, ~\$12,000,000. 8/15/2016-7/31/2021.
11. *Mizzou Online Grant to Start the Data Science Masters Program Online, \$240,000. 10/1/2016 – 6/1/2018.
12. *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](#).
13. *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](#).
14. +*NSF SAVI (PI) – Fostering New Collaborations in Open Online Community Data Research: Prototyping an Open Collaboration Data Factory, \$360,950, 9/1/2014-8/31/2018.

² This grant would not have been won without the Data Science Program I created and my participation in the development of the proposal, but I moved forward to focus on my research grants in 2018. The first \$2,000,000 of the grant was spent during my engagement, which included developing much of the curriculum I led the creation of during the first 18 months.

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15. 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.
16. 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.
17. NSF VOSS (PI) Toward a Context Adaptive Theory of the Relationship Between Structural Fluidity and Virtual Organization Performance, \$400,000, 9/2012-8/2016.
18. +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.
19. +Group Cognition: Office of Naval Research, CO-PI with Gerry Stahl (PI) and Carolyn Rose (CO-PI), \$250,000, 9/2009-12/2011
20. +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.
21. +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 Under Review

1. Collaborative Research: III: Medium: Generative Artificial Intelligence: Impacts on Open Source Software Viability and Practice, \$1,200,000, National Science Foundation
2. HNDS-I: Infrastructure for Research on Open Source Software Economic, Policy, Social Scientific Phenomena, \$795,772, National Science Foundation

Professional Activities

External Service

- Treasurer, ACM CSCW and Social Computing Conference, 2025
- Treasurer, ACM Group Conference, 2025
- Associate Editor for ACM Transactions on Social Computing
- Co-Organized CHAOSSCON 2019 Spring at FOSDEM in Brussels
- Co-Organized CHAOSSCON 2019 Fall at OSS Summit North America in San Diego
- Board Member, Linux Foundation CHAOSS Project
- Leader, LF CHAOSS Project working group on software risk
- Co-Leader, LF CHAOSS Project working group on software evolution
- Local Arrangements Chair, ACM Group, 2016, 2018, 2020
- Treasurer, ACM Group 2020
- Posters Chair, ACM CSCW 2017
- Accessibility Chair, ACM CHI 2017
- Program Committee Member, Learning Analytics 2015 Conference (LAK 15)

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- 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, 2016, 2017, 2019
- Program Committee, ISSOME 2013
- Publicity Co-Chair, ACM Group 2012
- ACM Group Program Committee Member, 2010, 2012, 2014, 2020
- iConference Program Committee, 2010, 2011, 2012
- 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

- Reviewer, National Science Foundation, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
- Associate Editor, ACM Transactions on Social Computing
- ACM CSCW 2010 – 2025
- ACM CHI 2012 – 2025
- ACM Group 2010 – 2025
- The Information Society
- Editor, Online Information Review 2020-2023
- Learning Analytics Conference, 2014, 2016, 2018, 2019
- Hawaii International Conference on Systems Science, 2011 – 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
- Journal of the American Society for Information Science & Technology
- International Journal of Computer Supported Collaborative Learning
- IEEE Social Computing 2010
- Information Technology & People
- Computers in Human Behavior
- Computers and Education
- ACM CHI/IEEE Transactions on Systems, Man and Cybernetics

Missouri Internal Service

- University of Missouri – Columbia Campus IT Committee, 2024-2027
- University of Missouri – Columbia Campus AI Committee, 2025-2027

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- University of Missouri College of Engineering Policy Committee, 2024-2027
- EECS Tenure and Promotion Committee Chair (and Chair-Elect), 2021-2023
- EECS Publications Committee, 2021-Present
- Founded the University of Missouri's Data Science and Analytics Master's Program
- Deans Council for Research Excellence, College of Engineering, 2017 – 2023
- Proposal Lead for developing the new DSA Master's 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) Master's degree through a 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 Students
- Drexel iSchool Search Committee
- 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

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Courses Taught

- 2025.** CMP_SC 3050 – Advanced Algorithm Design
2024. CMP_SC 3050 – Advanced Algorithm Design.
2024. CMP_SC 8630 – Advanced Data Visualization.
2023. CMP_SC 4230/7230 – Software Engineering.
2022. CMP_SC 4060 – String Algorithms.
2022. CMP_SC 4410 – Computer Science Theory.
2022. CMP_SC 4230/7230 – Software Engineering.
2021. CMP_SC 4230/7230 – Software Engineering.
2020. CMP_SC 4230/7230 – Software Engineering.
2019. CMP_SC 4230/7230 – Software Engineering.
2018. DATA_SCI 8630 – Data Mining and Information Retrieval, DATA_SCI 8640 – Big Data Security, DATA_SCI 8650 – Big Data Visualization, DATA_SCI 8656 – Advanced Data & Visual Communication II, DATA_SCI 8660 – Data and Information Ethics. (Student Credit Hours: 486 for spring and summer).
2017. DATA_SCI 7640 – An R Tutorial for Data Scientists, CMP_SC 4230/7230 – Software Engineering, DATA_SCI 8620 – Database and Analytics for Data Science, DATA_SCI 7600 – Introduction to Data Science, DATA_SCI 8640 – Big Data Security, DATA_SCI 8650 – Big Data Visualization, DATA_SCI 7620 – Database & SQL Bootcamp, DATA_SCI 7610 – Python Boot Camp, DATA_SCI 8630 – Data Mining and Information Retrieval. (Student Credit Hours: Spring: 702; Summer: 243; Fall: 537).
2016. CMP_SC 4230/7230 – Software Engineering, CMP_SC 7001 – Introduction to Data Science, DATA_SCI 7601 – Introduction to Data Science, DATA_SCI 8610 – Statistical and Mathematical Foundations of Data Science, DATA_SCI 8620 – Database & Analytics, DATA_SCI 7610 – Python Boot Camp. (Student Credit Hours: Spring: 357; Fall: 663).
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

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Academic Honors

- Best Paper, Journal of the American Society of Information Science & Technology, 2021.
- Outstanding Degree Credit Program, University Professional and Continuing Education Association, for the DSA Master's Program at the University of Missouri, 2018
- Deans Council for Research Excellence, 2017-2018, 2018-2019, 2019-2020, College of Engineering, University of Missouri
- University of Missouri Top Faculty Achiever, 2014, 2015, 2017, 2018
- Founding Member of the Linux Foundation's Open Source Software Health Metrics Working Group.
- 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 several open source projects as well. An overview of my software contributions is available at my GitHub Repositories:

<https://github.com/orgs/SociallyCompute/>

<https://github.com/orgs/OCDX/>

<https://github.com/orgs/OSSHealth/>

<https://github.com/sgoggins>

<https://github.com/CHAOSS>

<https://github.com/augurlabs>

<https://github.com/augur-community-reports>

<https://github.com/musoftwareengineering>

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 contributes to a project one does not control.

*Post Tenure Publication

My name is in **bold**

Student names are in *italics*

+Indicates a publication with collaborators outside of my lab and institution at the time of publication

Specific Software Developed includes:

1. *(2020 – Present) Open Source Software Health Metrics Community Reports (Augur Community Reports)³ \$899,000, 3 Years
2. *(2017 – Present) Open Source Software Health Metrics (Augur)³
3. *(2016) The Open Collaboration Data Exchange
4. *(2016-2021) Mission Hydro Sci: Framework for Gaming Analytics⁴
5. *(2016) Group Informatics Toolkit: Sociallycompute.io⁵
6. *(2015) Twitter Topic Miner
7. *(2015) Open Online Community Data Manifest
8. *(2015) The TwitterWhisperer
9. *(2015) Open Collaboration Data Factories Engine
10. *(2015) Globaloria Analysis Engine
11. (2014) Retracted Cite Seer with Eva Petakovic and Aleksandra Smith
12. (2014) WMD_Analytics
13. (2014) Finding Top GitHub Followers with Kelly Blincoe
14. (2014) Twitter text processing in Haskell with Ian Graves
15. (2014) Temporal Analysis of Twitter Data
16. (2014) Forum Analysis Engine
17. (2014) RTeva with Josh Introne and Ryan Babuich
18. (2014) GDriveGoggles with Phil Maconi
19. (2013) TwitterGoggles with Phil Maconi
20. (2013) REDDITGoggles with Phil Maconi
21. (2013) Introduction to “Big Social Data” Research Tools for Social Scientists.
22. (2013) VMT With Geogebra Analytics, with Wanli Xing and Gerry Stahl
23. (2012) Tatiana for small group analysis, with Gregory Dyke
24. (2011) Twitter Zombie for Twitter Data Collection and Management with Alan Black

Students Supervised (# shows successful dissertation defense/graduation)

Enock Kasaadha, Doctoral Advisor, University of Missouri, 2024-Present.

Rakib Ul Karim, Doctoral Advisor, University of Missouri, 2022-Present.

Wenyi Lu, Doctoral Advisor, University of Missouri, 2015-Present.

James Bain, Doctoral Advisor, University of Missouri, 2015-2019

Joe Griffin, Doctoral Advisor, University of Missouri, 2014-Present

Wanli Xing, Doctoral Advisor, University of Missouri, 2014-2016

Robert Wadholm, Committee Member, University of Missouri, 2013-2015

Maryshannon Williams, Doctoral Advisor, University of Missouri, 2014-2016

Hongfei Cao, Doctoral Committee Member, University of Missouri, 2014-2017

Ian Graves, Doctoral Committee Member, University of Missouri, 2014-2016

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

³ <http://augurlabs.io> and <https://github.com/CHAOSS/augur/> and <https://github.com/CHAOSS/augur-community-reports>

⁴ <http://mhs.missouri.edu>

⁵ <http://www.sociallycompute.io/>

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Nora McDonald, PhD Student, Advisor, Drexel University, 2012-2013
 # Christopher Mascaró, Advisor, PhD Student, Drexel University, 2010-2014
 # Warren Allen, Doctoral Committee Member, 2010-2013
 # Kelly Blincoe, Doctoral Committee Member, 2010-2014
 Nina Multak, Doctoral Committee Member, 2010-2015
 # Rachel Magee, Doctoral Committee Member, 2010-2015
 # Alison Novak, Doctoral Committee Member, 2010-2015
 # 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

Data Science and Analytics Masters Students Supervised

Aregbe, Farouk Olufunmilayo, Class of 2018
 # Atkinson, Ellyn Scot, Class of 2018
 # Barcenás, Tracie Ann, Class of 2018
 # Cane, Stephanie D, Class of 2018
 # Diestelkamp, Bryan E, Class of 2018
 # Frasier, Jennifer Rae, Class of 2018
 # Frasier, Jill A, Class of 2018
 # Hashem, Samir Mohammed, Class of 2018
 # Hedrick, David W, Class of 2018
 # Henderson, Renee Elizabeth, Class of 2018
 # Hope, John, Class of 2018
 # Joyce, Eileen Elizabeth, Class of 2018
 # Lewis, Nora Jane, Class of 2018
 # Mataya, John Allen, Class of 2018
 # Nowalk, Connor, Class of 2018
 # Padilla, Jaime Joaquin, Class of 2018
 # Raynsford, Evan Michael, Class of 2018
 # Reilly, Daniel William, Class of 2018
 # Sagade, Chinmay Sharad, Class of 2018
 # Sakosky, Denise, Class of 2018
 # Saley, Ali Souleymane, Class of 2018
 # Snively, Matthew David, Class of 2018
 Stoll, Ryan, 2016-2018
 # Zhao, Liang Hao, Class of 2018
 Arnold, Rachel Nicole, Class of 2019, until August, 2018.
 Beard, Adrian, Class of 2019, until August, 2018.
 Brush, Michael Andrew, Class of 2019, until August, 2018.
 Burke, Manuel Lee, Class of 2019, until August, 2018.
 Buttrey, Ryan N, Class of 2019, until August, 2018.
 Carlos, Marielle Rae, Class of 2019, until August, 2018.
 Craddock, Farris, Class of 2019, until August, 2018.
 Damato, Vanessa Michelle, Class of 2019, until August, 2018.
 Estoque, Brandon, Class of 2019, until August, 2018.

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+Indicates a publication with collaborators outside of my lab and institution at the time of publication

Eversman, Nicole Elizabeth, Class of 2019, until August, 2018.
Grellner, Garrett Thomas, Class of 2019, until August, 2018.
Huaman, Brissetty S, Class of 2019, until August, 2018.
Hutchins, Sarah E, Class of 2019, until August, 2018.
Jeffries, Ryan Allen, Class of 2019, until August, 2018.
Jouret, Jill Ellen, Class of 2019, until August, 2018.
Klein, Adam Joshua, Class of 2019, until August, 2018.
Laughlin, Travis Lee, Class of 2019, until August, 2018.
Lederle, Brent Austin, Class of 2019, until August, 2018.
Leung, Javier Alberto, Class of 2019, until August, 2018.
Ludovici, Stephanie Elaine, Class of 2019, until August, 2018.
Malan, Denise N, Class of 2019, until August, 2018.
Mojica, Aida, Class of 2019, until August, 2018.
Moum, Cindy Lucille, Class of 2019, until August, 2018.
Mullady, Sarah Eileen, Class of 2019, until August, 2018.
Reilly, Sean Patrick, Class of 2019, until August, 2018.
Ross, Brandi Lynn, Class of 2019, until August, 2018.
Sanders, Dale B, Class of 2019, until August, 2018.
Schlicht, Joseph Thomas, Class of 2019, until August, 2018.
Sebek, Jessica Marie, Class of 2019, until August, 2018.
Sloan, Zachary Patrick, Class of 2019, until August, 2018.
Smith, Jordan Leonard, Class of 2019, until August, 2018.
Waigandt, Jordan Holland, Class of 2019, until August, 2018.
Warden, Jeremy Doyle, Class of 2019, until August, 2018.
White, Sarah Jordan, Class of 2019, until August, 2018.
Wickert, Lori May Mary, Class of 2019, until August, 2018.
Wilson, Kai E, Class of 2019, until August, 2018.
Wilson, Tabatha Ann, Class of 2019, until August, 2018.

Memberships

2001-(current) – Association for Computing Machinery (ACM)
2001-(current) – Institute for Electrical and Electronics Engineers (IEEE)
2007-2016– Association for Information Science and Technology (ASIS&T)
2004-2014 – Project Management Institute (PMI)

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