

## ANDREA GROVER

College of Information Science & Technology  
University of Nebraska at Omaha  
6001 Dodge St.  
Omaha, NE 68182 USA

Office: +1 402-554-2093  
Cell: +1 315-558-0122  
Email: [andreagrover@unomaha.edu](mailto:andreagrover@unomaha.edu)  
Web: <http://www.andreawiggins.com>

---

### Research Interests

My research investigates the interactions of organizational settings, work design, and technologies in open collaboration systems. I study citizen science to better understand and design information systems for open participation and collaboration in data-intensive contexts.

---

### Appointments

UNIVERSITY OF NEBRASKA AT OMAHA Omaha, NE

Assistant Professor, 2017–current

UNIVERSITY OF MARYLAND, COLLEGE PARK College Park, MD

Assistant Professor, 2014–2017

Affiliate Assistant Professor, 2017–2020

DATAONE Albuquerque, NM & Ithaca, NY

Postdoctoral Fellow, 2012–2014

Co-appointed at University of New Mexico & Cornell Lab of Ornithology, Cornell University

---

### Education

SYRACUSE UNIVERSITY SCHOOL OF INFORMATION STUDIES Syracuse, NY

PhD, Information Science & Technology, 2012

DISSERTATION: Crowdsourcing Scientific Work: A Comparative Study of Technologies, Processes, and Outcomes in Citizen Science

UNIVERSITY OF MICHIGAN SCHOOL OF INFORMATION Ann Arbor, MI

MSI, Information, 2007

THESIS: Exploring Peer Prestige in Academic Hiring Networks

ALMA COLLEGE Alma, MI

BA, Mathematics, 2000

---

## Publications

### REFEREED JOURNAL PAPERS (22)

- Beck, S., ... , **Wiggins, A.** & Xu, S.M. (2020). The Open Innovation in Science Research Field: A Collaborative Conceptualisation Approach. *Industry and Innovation*. DOI: 10.1080/13662716.2020.1792274.
- Bowser, A., Cooper, C., **Wiggins, A.**, de Sherbinin, A., Haklay, M., Faustman, E., Chuang, T.-R., & Brenton, P. (2020). Still in Need of Norms: The State of the Data in Citizen Science. *Citizen Science: Theory and Practice*, 5(1), 18. DOI: <http://doi.org/10.5334/cstp.303>.
- Wiggins, A.** & Wilbanks, J. (2019). The Rise of Citizen Science in Biomedical and Health Research. *American Journal of Bioethics*, 19(8):3-14. DOI: 10.1080/15265161.2019.1619859.
- Lukyanenko, R., **Wiggins, A.**, & Rosser, H. (2019). Citizen Science as an Information Quality Frontier. *Information Systems Frontiers*, (2019), 1–23. DOI: <https://doi.org/10.1007/s10796-019-09915-z>.
- Parrish, J.K., Burgess, H., Weltzin, J.F., Fortson, L., **Wiggins, A.**, & Simmons, B. (2018). Exposing the Science in Citizen Science: Fitness to Purpose and Intentional Design. *Integrative and Comparative Biology*, 58(1): 150-160. DOI: 10.1093/icb/icy032.
- Wiggins, A.**, Bonney, R., LeBuhn, G., Parrish, J.K., & Weltzin, J.F. (2018). A Science Products Inventory for Citizen-Science Planning and Evaluation. *BioScience*, 68(6):436–444. DOI: 10.1093/bioscience/biy028.
- He, Y. & **Wiggins, A.** (2017). Implementing an Environmental Citizen Science Project: Strategies and Concerns from Educators' Perspectives. *International Journal of Environmental and Science Education*, 12(6):1459-1481.
- Sullivan, B., Phillips, T., Dayer, A., Wood, C., Farnsworth, A., Rodewald, A., Iliff, M., Davies, I., **Wiggins, A.**, Rosenberg, K., Fink, D., Hochachka, W., Bonney, R., & Kelling, S. (2017). Using open access observational data for conservation action: a case study for birds. *Biological Conservation*, 208(2017):5–14. DOI: 10.1016/j.biocon.2016.04.031.
- McKinley, D., Miller-Rushing, A., Ballard, H., Bonney, R., Brown, H., Cook-Patton, S., Evans, D., French, R., Parrish, J., Phillips, T., Ryan, S., Shanley, L., Shirk, J., Stepenuck, K., Weltzin, J., **Wiggins, A.**, Boyle, O., Briggs, R., Chapin, S., Hewitt, D., Preuss, P., & Soukup, M. (2017). Citizen Science Can Improve Conservation Science, Natural Resource Management, and Environmental Protection. *Biological Conservation*, 208(2017):15–28. DOI: 10.1016/j.biocon.2016.05.015.
- Kosmala, M., **Wiggins, A.**, Swanson, A., & Simmons, B. (2016). Assessing Data Quality in Citizen Science. *Frontiers in Ecology and the Environment*, 14(10):551–560. DOI: 10.1002/fee.1436 (published); 10.1101/074104 (bioRxiv preprint).
- Bowser, A. & **Wiggins, A.** (2015). Privacy in Participatory Research: Advancing Policy to support Human Computation. *Human Computation*, (2)1:19–44. DOI: 10.15346/hc.v2i1.3.
- Wiggins, A.**, & Crowston, K. (2015). Surveying the citizen science landscape. *First Monday*, 20(1). DOI: 10.5210/fm.v20i1.5520
- McKinley, D., Miller-Rushing, A., Ballard, H., Bonney, R., Brown, H., Evans, D., French, R., Parrish, J., Phillips, T., Ryan, S., Shanley, L., Shirk, J., Stepenuck, K., Weltzin, J., **Wiggins, A.**, Boyle, O., Briggs, R., Chapin, S., Hewitt, D., Preuss, P., & Soukup, M. (2015). Investing in Citizen Science Can Improve Natural Resource Management and Environmental Protection. *Issues in Ecology*, (19).
- Kelling, S., Johnston, A., Hochachka, W., Iliff, M., Fink, D., Gerbracht, J., Lagoze, C., La Sorte, F., Moore, T., **Wiggins, A.**, Wong, W.-K., Wood, C., & Yu, J. (2015). Can Observation Skills of Citizen Scientists Be Estimated Using Species Accumulation Curves?. *PloS one*, 10(10), e0139600. DOI: 10.1371/journal.pone.0139600.
- Bonney, R., Shirk, J., Phillips, T., **Wiggins, A.**, Ballard, H., Miller-Rushing, A., & Parrish, J. (March 2014). Next Steps for Citizen Science. *Science Policy Forum* (invited). 343(6178):1436–1437. DOI: 10.1126/science.1251554.

- Sullivan, B., Aycrigg, J., Barry, J., Bonney, R., Bruns, N., Cooper, C., Damoulas, T., Dhondt, A., Dieterich, T., Farnsworth, A., Fink, D., Fitzpatrick, J., Fredericks, T., Gerbracht, J., Gomes, C., Hochachka, W., Iliff, M., Lagoze, C., La Sorte, F., Merrifield, M., Morris, W., Phillips, T., Reynolds, M., Rodewald, A., Rosenberg, K., Trautmann, N., **Wiggins, A.**, Winkler, D., Wong, W.-K., Wood, C., Yu, J., & Kelling, S. (2014). The eBird enterprise: an integrated approach to the development and application of citizen science. *Biological Conservation*, 169(1):31-40, DOI: 10.1016/j.biocon.2013.11.003. *Editor's Choice*.
- Newman, G., **Wiggins, A.**, Crall, A., Graham, E., Newman, S., & Crowston, K. (2012). Citizen Science Futures: Emerging Technologies and Shifting Paradigms. *Frontiers in Ecology and the Environment*. 10(6):298–307. DOI: 10.1890/110294.
- Shirk, J., Ballard, H., Wilderman, C., Phillips, T., **Wiggins, A.**, Jordan, R., McCallie, E., Minarchek, M., Lewenstein, B., Krasny, M., & Bonney, R. (2012). Public Participation in Scientific Research: A Framework for Deliberate Design. *Ecology & Society*, 17(2):29.
- Crowston, K., Wei, L., Howison, J., & **Wiggins, A.** (2012). Free/Libre Open Source Software Development: What We Know and What We Do Not Know. *ACM Computing Surveys*, 44(2).
- Wiggins, A.** & Sawyer, S. (2012). Intellectual Diversity and the Faculty Composition of iSchools. *Journal of the American Society for Information Science and Technology*. 63(1), 8–21.
- Howison, J., **Wiggins, A.**, & Crowston, K. (2011). Validity Issues in the Use of Social Network Analysis with Digital Trace Data. *Journal of the Association for Information Systems*, 12(12):767–797.
- Wiggins, A.** & Crowston, K. (2010). Developing a Conceptual Model of Virtual Organizations for Citizen Science. *International Journal of Organisational Design and Engineering*, 1(1/2):148–162.

#### REFEREED BOOK CHAPTERS (1)

- Bowser, A., **Wiggins, A.**, & Tyson, E. (2020). Legal, Ethical, and Policy Considerations. In *Handbook of Citizen Science in Ecology and Conservation*, Lepczyk, C., Boyle, O., & Vargo, T., eds. University of California Press. ISBN 978-0520284791.

#### REFEREED CONFERENCE PROCEEDINGS (22)

- Rosser, H. & **Wiggins, A.** (2019). Crowds and Camera Traps: Genres in Online Citizen Science Projects. In *Proceedings of the 52nd Annual Hawaii International Conference on Systems Sciences*. Grand Wailea, HI, 8–11 January, 2019.
- Wiggins, A.**, Young, A., & Kenney, M. (2018). Exploring Visual Representations to Support Data Re-Use for Interdisciplinary Science. In *Proceedings of the 81st Annual Meeting of the Association for Information Science & Technology*. Vancouver, BC, 9–14 November, 2018.
- Law, E., Gajos, K., **Wiggins, A.**, Gray, M., & Williams, A. (2017). Crowdsourcing as a Tool for Research: Implications of Uncertainty. In *Proceedings of the ACM International conference on Computer-supported cooperative work and social computing*. Portland, OR, 25 February–1 March, 2017. DOI: 10.1145/2998181.2998197.
- Wiggins, A.** & He, Y. (2016). Community-based Data Validation Practices in Citizen Science. In *Proceedings of the ACM International conference on Computer-supported cooperative work and social computing*. San Francisco, CA, 28 February–3 March, 2016. DOI: 10.1145/2818048.2820063. *Honorable Mention*.
- Lagoze, C., Sullivan, B., **Wiggins, A.** & Kelling, S. (2014). eBird: Curating Citizen Science Data for Use by Diverse Communities. In *Proceedings of the International Digital Curation Conference*. San Francisco, CA, 24–27 February, 2014.
- Sheppard, S.A., **Wiggins, A.** & Terveen, L. (2014). Capturing quality: Retaining provenance for curated volunteer monitoring data. In *Proceedings of the ACM International conference on computer-supported cooperative work and social computing*. Baltimore, MD, 15–19 February, 2014.

- Wiggins, A.** (2013). Free as in Puppies: Compensating for ICT Constraints in Citizen Science. In *Proceedings of the ACM International conference on computer-supported cooperative work and social computing*. San Antonio, TX, 27 April, 2013.
- Wiggins, A.** & Crowston, K. (2012). Goals and Tasks: Two Typologies of Citizen Science Projects. In *Proceedings of the 45th Annual Hawaii International Conference on Systems Sciences*. Wailea, HI, 4–7 January, 2012.
- Wiggins, A.** & Crowston, K. (2011). From Conservation to Crowdsourcing: A Typology of Citizen Science. In *Proceedings of the 44th Annual Hawaii International Conference on System Sciences*. Koloa, HI, 4–7 January, 2011.
- Qin, J., Chen, M., Liu, X. & **Wiggins, A.** (2010). Linking Entities in Scientific Metadata. In *Proceedings of the International Conference on Dublin Core and Metadata Applications*. Pittsburgh, PA, 20–22 October, 2010.
- Wiggins, A.** & Crowston, K. (2010). Reclassifying Success and Tragedy in FLOSS Projects. In *Proceedings of the Sixth International Conference on Open Source Software*. Notre Dame, IN, 30 May–2 June, 2010.
- Wiggins, A.** & Sawyer, S. (2010). Intellectual Diversity in iSchools: Past, Present and Future. In *Proceedings of the iConference 2010*. Champaign, IL, 3–6 February, 2010.
- Crowston, K., **Wiggins, A.**, & Howison, J. (2010). Analyzing leadership dynamics in distributed group communication. In *Proceedings of the 43rd Annual Hawaii International Conference on System Sciences*. Kauai, HI, 5–8 January, 2010.
- Wiggins, A.**, Howison, J. & Crowston, K. (2009). Heartbeat: Measuring Active User Base and Potential User Interest in FLOSS Projects. In *Proceedings of the Fifth International Conference on Open Source Software*. Skövde, SE, 3–6 June, 2009.
- Crowston, K., **Wiggins, A.** & Howison, J. (2008). Opportunities for eScience Research on Free/Libre Open Source Software. In *Proceedings of the Oxford e-Research Conference*. Oxford, UK, 11–13 September, 2008.
- Wiggins, A.**, Howison, J., & Crowston, K. (2008). Replication of FLOSS Research as eResearch. In *Proceedings of the Oxford e-Research Conference*. Oxford, UK, 11–13 September, 2008.
- Wiggins, A.**, Howison, J. & Crowston, K. (2008). Social dynamics of FLOSS team communication across channels. In *Proceedings of the Fourth International Conference on Open Source Software*. Milan, IT, 7–10 September, 2008.
- Howison, J., **Wiggins, A.** & Crowston, K. (2008). eResearch workflows for studying free and open source software development. In *Proceedings of the Fourth International Conference on Open Source Software*. Milan, IT, 7–10 September, 2008.
- Crowston, K., Howison, J. & **Wiggins, A.** (2008). eSocial Science for Free/Libre Open Source Software Researchers. In *Proceedings of the Fourth International Conference on eSocial Science*. Manchester, UK, 18–20 June, 2008.
- Wiggins, A.**, McQuaid, M., & Adamic, L. (2008). Community Identity: Peer Prestige and Academic Hiring in the iSchools. *iConference 2008*. Los Angeles, CA, 28 February–1 March, 2008.
- Wiggins, A.** (2007). Data Driven Design: Using Web Analytics to Improve Information Architectures. In *Proceedings of the ASIST Information Architecture Summit 2007*. Las Vegas, NV, 22–26 March, 2007.
- Wiggins, A.**, Adamic, L., & McQuaid, M. (2006). The Small Worlds of Academic Hiring Networks. *Applications of Social Network Analysis*. Zürich, CH, 5–6 October, 2006.

#### REFEREED CONFERENCE POSTERS (19)

- Ahuja, V., **Wiggins, A.**, & Mudhelli, S. (2019). The Impact of Screen Size on Crowdsourced Image Classification. In *Companion to the Proceedings of the ACM International Conference on Computer-supported cooperative work and social computing*, Austin, TX, 11 November, 2019.

- Rosser, H. & **Wiggins, A.** (2018). Task Instruction in Crowdsourcing: Evaluating Tutorial Design in Zooniverse. In *Companion to the Proceedings of the ACM International Conference on Computer-supported cooperative work and social computing*, Jersey City, NJ, 3 - 7 November, 2018.
- Brier, J., **Wiggins, A.**, Cawood, A., & Sharova, M. (2017). Evaluating Science Outcomes in Citizen Science. Citizen Science 2017 Conference, St. Paul, MN.
- He, Y., Preece, J., Hammock, J., Weber, M., McKeon, S., & **Wiggins, A.** (2017). Integrating a citizen science project in different education settings. Citizen Science 2017 Conference, St. Paul, MN.
- de Sherbinin, A., Cooper, C., & **Wiggins, A.** (2017). Validation, Curation, and Management of Crowdsourced Data. Citizen Science 2017 Conference, St. Paul, MN.
- He, Y., Preece, J., Hammock, J., Weber, M., McKeon, S., & **Wiggins, A.** (2016). A Journey of Citizen Science Data in an Online Environment. In *Companion to the Proceedings of the ACM International Conference on Computer-supported cooperative work and social computing*, San Francisco, CA, 28 February - 3 March, 2016.
- Prestopnik, N., Crowston, K., & **Wiggins, A.** (2012). Motivating Citizen Scientists with a Classification Game. *Conference on Public Participation in Scientific Research*. Portland, OR, 4–5 August, 2012.
- Michener, W., Bonney, R., Budden, A., Cook, R., Kelling, S., Koskela, R., Vieglais, D., & **Wiggins, A.** (2012). Supporting the Management of Data Throughout its Life Cycle. *Conference on Public Participation in Scientific Research*. Portland, OR, 4–5 August, 2012.
- Shirk, J., Ballard, H., **Wiggins, A.**, Jordan, R., & Bonney, R. (2011). Public participation in scientific research: A framework for intentional design. *96th Ecological Society of America Annual Meeting*. Austin, TX, 7–12 August, 2011.
- Wiggins, A.** (2011). eBirding: Technology Adoption and the Transformation of Leisure into Science. *iConference 2011*. Seattle, WA, 8–11 February, 2011. *Best Poster Award*.
- Qin, J., D'Ignazio, J., Oakleaf, M., Crowston, K., **Wiggins, A.** & Steinhart, G. (2010). Educating eScience Librarians. *Sixth International Digital Curation Conference*. Chicago, IL, 6–8 December, 2010.
- Wiggins, A.** (2010). Crowdsourcing Science: Organizing Virtual Participation in Knowledge Production. In *Proceedings of ACM International conference on supporting group work*. Sanibel Island, FL, 7–11 November, 2010.
- Wiggins, A.** (2010). Technology and Work Practices in Citizen Science. *ASIST 2010*. Pittsburgh, PA, 22–27 October, 2010.
- Wiggins, A.** (2010). Organizing from the Middle Out: Citizen Science in the National Parks. *iConference 2010*. Champaign, IL, 3–6 February, 2010.
- Wiggins, A.** (2009). Coordination Dynamics in Free/Libre Open Source Software Development. In *Proceedings of the Doctoral Consortium of the Fifth International Conference on Open Source Software*. Skövde, SE, 3–6 June, 2009.
- Crowston, K., Bolici, F., & **Wiggins, A.** (2009). Appropriate Measures for On-line Communities. *Sunbelt XXIX*. San Diego, CA, 10–15 March, 2009.
- Wiggins, A.** *Interdisciplinary Diversity in the iSchool Community*. *iConference 2009*. Chapel Hill, NC, 9–11 February, 2009.
- Li, Q., Heckman, R., Allen, E., Crowston, K., Eseryel, U., Howison, J., & **Wiggins, A.** (2008). Asynchronous Decision-Making in Distributed Teams. *ACM International conference on computer-supported cooperative work*. San Diego, CA, 8–12 November, 2008.
- Williams, K., Bishop, A., Bard, M., & **Wiggins, A.** (2006). Turning program management data into a research dataset: working with the Department of Commerce to study technology projects in local communities. *IASSIST 2006*. Ann Arbor, MI, 23–26 May, 2006.

## REFEREED WORKSHOP PAPERS (9)

- He, Y. & **Wiggins, A.** (2015). Community-as-a-Service: Data Validation in Citizen Science. 4th International Workshop on Methods for Establishing Trust of (Open) Data, Bethlehem, PA.
- Hammock, J. & **Wiggins, A.** (2014). Connecting diverse communities through citizen science data infrastructure, "Citizen + X" workshop, AAAI Conference on Human Computation & Crowdsourcing, Pittsburgh, PA.
- Wiggins, A.**, Lagoze, C., Wong, W.-K., & Kelling, S. (2014). A sensor network approach to managing data quality in citizen science, "Citizen + X" workshop, AAAI Conference on Human Computation & Crowdsourcing, Pittsburgh, PA.
- Wiggins, A.**, Gerbracht, J., Lagoze, C., Yu, J., Wong, W.-K. & Kelling, S. (2012). Crowdsourcing citizen science data quality with a human-computer learning network. "Human Computation for Science and Computational Sustainability" workshop, Neural Information Processing Systems Conference, Lake Tahoe, NV.
- Wiggins, A.**, Newman, G., Stevenson, R. D., & Crowston, K. (2011). Mechanisms for Data Quality and Validation in Citizen Science. "Computing for Citizen Science" workshop, IEEE eScience Conference, Stockholm, SE.
- Wiggins, A.** & Crowston, K. (2010). Distributed Scientific Collaboration: Research Opportunities in Citizen Science. "The Changing Dynamics of Scientific Collaboration" workshop, ACM International conference on computer-supported cooperative work, Savannah, GA.
- Wiggins, A.** & Crowston, K. (2009). Designing Virtual Organizations for Citizen Science. OASIS 2009 Workshop, International Conference on Information Systems, Phoenix, AZ.
- Wiggins, A.**, Crowston, K., & Howison, J. (2009). Collaborative Data Analysis with Taverna Workflows. Microsoft eScience Workshop, Pittsburgh, PA.
- Crowston, K., Howison, J., & **Wiggins, A.** (2009). eScience to support research on free/libre/open source software development. Microsoft eScience Workshop, Pittsburgh, PA.

## REFEREED PANELS (5)

- Peterman, K., **Wiggins, A.**, Mueller, M., Vastine, J., Semmens-Pattengill, C., Stylinski, C., & Becker-Klein, R. (2019). Hiding in Plain Sight - Stories of the Search for Volunteer Skill Gains In Data Validation Records. Symposium. Citizen Science Association Conference, Raleigh, NC.
- Wiggins, A.** (2017). Citizen Science: Data Sharing For, By, and With the Public. Receiving Credit Where Credit is Due: Overcoming Barriers to Effective Data Sharing for Collaborative, Transdisciplinary Research Panel (official panel of Earth and Space Sciences Focus Group Program Committee). American Geophysical Union Fall Meeting, New Orleans, LA.
- Yew, J., Chi, E., Antin, J., Paul, S., Shaw, A., Lampe, C., & **Wiggins, A.** (2011). Apples to Oranges?: Comparing across studies of open collaboration/peer production. International Symposium on Wikis and Open Collaboration, Mountain View, CA.
- Khoo, M., Twidale, M., **Wiggins, A.**, & Rode, J. (2011). The Sociotechnical Learning Object Slam Happening. iConference 2011, Seattle, WA.
- Crowston, K., Sawyer, S., Ribes, D., & **Wiggins, A.** (2009). Big eScience, Little eScience. iConference 2009, Chapel Hill, NC.

## PROFESSIONAL PUBLICATIONS (7)

- Bowser, A., **Wiggins, A.**, Shanley, L., Preece, J., & Henderson, S. (2014). Sharing Data While Protecting Privacy in Citizen Science. *ACM interactions*, January 2014.
- Bowser, A., **Wiggins, A.**, & Stevenson, R. (2013). *Data Policies for Public Participation in Scientific Research: A Primer*. DataONE: Albuquerque, NM.

- Wiggins, A.,** Bonney, R., Graham, E., Henderson, S., Kelling, S., Littauer, R., LeBuhn, G., Lotts, K., Michener, W., Newman, G., Russell, E., Stevenson, R. & Weltzin, J. (2013). *Data Management Guide for Public Participation in Scientific Research*. DataONE: Albuquerque, NM.
- Wiggins, A.** (2007). Building a Data-Backed Persona. *Boxes & Arrows*.  
<http://www.boxesandarrows.com/view/building-a-data>
- Wiggins, A.** (2007). Data Driven Design: Using Web Analytics to Validate Heuristics. *Bulletin of the American Society for Information Science and Technology*.  
<http://www.asis.org/Bulletin/Jun-07/wiggins.html>
- Wiggins, A.** (2006). Metrics for Heuristics: Quantifying User Experience Part 2. *Boxes & Arrows*.  
[http://www.boxesandarrows.com/view/metrics\\_for\\_heu7](http://www.boxesandarrows.com/view/metrics_for_heu7)
- Wiggins, A.** (2006). Metrics for Heuristics: Quantifying User Experience Part 1. *Boxes & Arrows*.  
[http://www.boxesandarrows.com/view/metrics\\_for\\_heu](http://www.boxesandarrows.com/view/metrics_for_heu)

#### TECHNICAL REPORTS (2)

- Link, G., Lombard, K., Damen, N., Rosser, H., Germonprez, M., Goggins, S., Wiggins, A., Ahuja, V., Brier, J., Cohoon, J., Halfaker, A., Howison, J., Marti, D., Newman, G., Østerlund, C., Paik, R., Rother, B., & Schecter, A. (2019). Open Community Health: Workshop Report. *Journal of Peer Production*, 13. <http://peerproduction.net/editsuite/issues/issue-13-open/news-from-nowhere/open-community-health-workshop-report/>.
- Gerst, M.D., Kenney, M.A, Wolfinger, J.F., Baer, A., **Wiggins, A.**, Feygina, I., Bell, J., Brody, C., Jaffee, N., Lamoreux, A., Lloyd, A., Rice, A., Speciale, A., Sproul, D., Winik, J., & Young, A. (2017) Effective Visual Communication of Climate Indicators and Scientific Information: Synthesis, Design Considerations, and Examples. A Technical Input Report to the 4th National Climate Assessment Report. Version 1.0. <http://www.umdindicators.org/wp-content/uploads/2017/01/Visual-Design-Guidance-Document-V1.0.pdf>.

## Conferences, Workshops, and Talks

### INVITED TALKS (55)

- Grover, A. *Please Send Spam*. Lightning talk, SciFoo Alumni Talks, Google & O'Reilly Media. Virtual. 13 May, 2021.
- Grover, A. *Citizen Science for Community Resilience*. Panelist, Planetary Health Annual Meeting and Festival. Virtual. 27 April, 2021.
- Grover, A. *Five observations on HCI in Citizen Science*. Lightning talk, "Human-computer Interactions, Citizen Science, and Technology" workshop, UK Centre for Ecology & Hydrology. Virtual. 9 March, 2021.
- Wiggins, A. *Better (Citizen) Science With Household Surveys*. Panel presentation, "Household Surveys in the Changing Data Landscape: Challenges, Opportunities and an Agenda for the Future", United Nations Statistical Commission. New York, NY. 28 February, 2020.
- Wiggins, A. *Scholarship in the Public Eye*. Panel presentation for Decennial Sociotechnical Research Symposium. Ann Arbor, MI. 1 July, 2018.
- Wiggins, A. *Fitness for intended use: designing, managing, and assessing data quality in citizen science*. New Zealand Citizen Science Symposium 2018. Te Papa, Wellington, NZ. 9 April, 2018.
- Wiggins, A. *Data & Quality Management for #WeGlobal*. Planning meeting for African Americans Living Abroad Research and Education project. School for International Training, Washington, DC, 5 January 2018.

- Wiggins, A. *Data Sharing Perspectives from Citizen Science and Information Science*. The Value of Data Sharing workshop, Policies, Oversight, and Best Practices Panel, NIH Office of Science Policy & NSF Science of Science & Innovation Policy Program, Washington, DC. 13 October, 2017.
- Wiggins, A. *How We Did Everything Right & Still Got It Wrong*. Designing Citizen Science to Support Science Learning study workshop, National Academy of Science, Engineering, and Medicine, Board on Science Education, Washington, DC. 10 August, 2017.
- Wiggins, A. *Equality, Integrity, Justice, & Common Good: Democratic Design Principles for Personal Health Citizen Science*. Promoting Social Justice in the Use of Personal Health Data, Health Data Exploration Network Meeting, San Diego, CA. 3 May, 2017.
- Wiggins, A. *Citizen Science 101: What Everyone Should Know About Crowdsourcing Science*. DIYBio Meetup, Reston, VA. April 2017.
- Wiggins, A. *Information Studies Research Opportunities in Citizen Science*. INST 888, Doctoral Seminar, College Park, MD. 29 March, 2017.
- Wiggins, A. *Fitness for intended use: designing, managing, and assessing data quality in citizen science*. Citizen Science in Southeast Asia Conference, Singapore. 4 March, 2017.
- Wiggins, A. *Data Quality in Citizen Science*. ASU Citizen Science Maker Summit, Chandler, AZ. 27 October, 2016.
- Wiggins, A. *Data Quality in Citizen Science*. Midwest Big Data Hub workshop on Data Quality in the Age of Big Data, Bloomington, IN. 29 September, 2016.
- Wiggins, A. *Teaching Sustainability in Information Management*. Chesapeake Project Faculty Training Workshop, College Park, MD. 27 May, 2016.
- Wiggins, A. *Evaluating Climate Indicators to Inform Design for Data Discovery & Science Communication*. 32nd Annual Human-Computer Interaction Lab Symposium, College Park, MD. 26 May, 2016.
- Wiggins, A. *Tales of the Field: Citizen Science Edition*. Enabling Personal Data Donation for Public Good Research, Health Data Exploration Network Meeting, San Diego, CA. 17 May, 2016.
- Wiggins, A. *Community-based Data Validation in Citizen Science*. Carnegie Mellon University Human-Computer Interaction Institute and Language Technologies Institute Crowdsourcing Lunch Seminar Series, Pittsburgh, PA. 15 March, 2016.
- Wiggins, A. *Community-based Data Validation in Citizen Science*. Human-Computer Interaction Lab Brown Bag Lunch Series, College Park, MD. 7 April, 2016.
- Wiggins, A. *Citizen Science 101: What everyone should know about crowdsourcing science*. UNC Chapel Hill, INLS 697: Emerging Topics in Information Science. 31 March, 2016.
- Wiggins, A. *Maintenance & Sustainability in Information Management*. INFM 600, College Park, MD. March 2016.
- Wiggins, A. *The Power of Citizen Science*. DC Science Café, Washington, DC. Invited speaker for DC Science Writers Association public event focused on citizen science. 2015.
- Wiggins, A. *Citizen Science 101: What everyone should know about crowdsourcing science*. Women's Council on Energy & the Environment, Washington, DC. 2015.
- Wiggins, A. *Adventures in Open eScience: the FLOSS Replication Studies*. iSchool-BSOS Symposium on Data-Intensive Computational Social Science, College Park, MD. September, 2015.
- Wiggins, A. *Frontiers in the Science of Citizen Science*. National Institutes for Health Citizen Science Working Group, Rockville, MD. 2015.
- Wiggins, A. *Strategic Capacity Theory*, CASCI Theory Reading Group, College Park, MD. 2015.
- Wiggins, A. *Information Studies Research Opportunities in Citizen Science*. INST 888, Doctoral Seminar, College Park, MD. 2015.
- Wiggins, A. *Data Quality in Citizen Science (or the next closest thing)*. University of Oxford Astrophysics "Zoominar" Seminar Series, Oxford, UK. 5 August, 2015.



- Wiggins, A. *Data Management for Citizen Science*, National Advisory Council for Environmental Policy and Technology (NACEPT is an advisory board to the U.S. Environmental Protection Agency). Washington, DC. 2015.
- Wiggins, A. *Citizen Science at Scale: Human Computation for Science, Education, and Sustainability*. Human-Computer Interaction Lab Brown Bag Seminar, College Park, MD. 23 October, 2014.
- Wiggins, A. *Information Studies Research Opportunities in Citizen Science*. INST 888, Doctoral Seminar, College Park, MD. 16 October, 2014.
- Wiggins, A. *Data Management in the Wild*. INST 643, Curation in Cultural Institutions, College Park, MD. 21 October, 2014.
- Wiggins, A. *Citizen Science and the Data Quality Debate*. US Environmental Protection Agency Office on Science Policy, Washington, DC. 16 July, 2014.
- Wiggins, A. *SoCS: Collaborative Research: A Human Computational Approach for Improving Data Quality in Citizen Science Projects*. Regional NSF Social-Computational Systems Grantee Workshop, Syracuse, NY. 5 April, 2014.
- Wiggins, A. *Crowdsourcing Your Research*. Presentation for Syracuse University Graduate School Professional Development Lecture Series. Syracuse, NY. 7 February, 2014.
- Wiggins, A. *Surveying the Citizen Science Landscape*. Roundtable for College of Information Science & Technology, University of Nebraska Omaha. Omaha, NE. 22 November, 2013.
- Wiggins, A. *Online Communities in Citizen Science*. Guest lecture for COMM/INFO 3460, Cornell University. Ithaca, NY. 19 November, 2013.
- Wiggins, A. *Online Communities in Citizen Science*. Guest lecture for COMM/INFO 3460, Cornell University. Ithaca, NY. 8 November, 2012.
- Wiggins, A. *DataONE: Supporting Scientific Data Preservation, Discovery, and Innovation*. Avian Knowledge Network Annual Meeting, Portland, OR. October, 2012.
- Wiggins, A. *Citizen Science Phenotypes: Typologies & Implications of Project Design*. iDigBio Public Participation in Digitization of Biodiversity Specimens Workshop. Gainesville, FL, 27–28 September, 2012.
- Wiggins, A. *Citizen Science 101: What Every Researcher Needs to Know About Public Participation in Scientific Research*. Center for Nonlinear Systems, Los Alamos National Labs. Los Alamos, NM. 17 September, 2012.
- Wiggins, A. *Data Management for Citizen Science: Challenges & Opportunities for USGS Leadership*. USGS Community for Data Integration Workshop on Citizen Science. Denver, CO. 12 September, 2012.
- Wiggins, A. *The Evolving Landscape of Citizen Science: Typologies & Implications of Project Design*. USGS Community for Data Integration Workshop on Citizen Science. Denver, CO. 11 September, 2012.
- Wiggins, A. *With Great Data Comes Great Responsibility: Data Management for PPSR*. Conference on Public Participation in Scientific Research, Portland, OR. August 4–5, 2012.
- Wiggins, A. *Motivation by Design: Technologies, Experiences, and Incentives*. Citizen Cyberscience Summit 2012, London, UK. February 16–18, 2012.
- Wiggins, A. *Secondary data analysis with digital trace data: examples from FLOSS research*. Département LUSSI, Institut Télécom Bretagne Methodology Seminar. Technopole Brest-Iroise, FR. 13 July, 2011.
- Wiggins, A. *Open Source, Open Science, and Citizen Science*. Département LUSSI, Institut Télécom Bretagne Research Seminar. Technopole Brest-Iroise, FR. 24 June, 2011.
- Goggins, S., & Wiggins, A. *Research methodologies for digital trace data*. University of British Columbia, School of Library, Archival and Information Sciences. Vancouver, BC. 4 February, 2011.
- Wiggins, A. *Little eScience*. Information Management Group, University of Manchester. Manch-

ester, UK. 18 June, 2009.

Wiggins, A. *Dynamic Social Network Analysis (and more!) with eResearch Workflows*. OSSWatch Expert Workshop on Profiling Communities. Oxford, UK. 21 July, 2008.

Wiggins, A. *Data Analysis*. IST 400/600, Science Data Management, Syracuse University. Syracuse, NY. 14 April, 2008.

Conklin, M., Howison, J., & Wiggins, A. *FLOSSmole*. Free and Open Source Software Research Infrastructure Workshop. Irvine, CA. 11–12 February, 2008.

Wiggins, A. *Web Analytics*. SI 658, Information Architecture, University of Michigan. Ann Arbor, MI. 10 October, 2006.

Wiggins, A., Bard, M., & Baugh, J. *Dabbling in Drupal: A Case Study of the University of Michigan Community Information Corps Website*. Library Technologies Division at the Michigan Library Association annual conference. Grand Rapids, MI. 25 October, 2005.

#### REFEREED ABSTRACTS (12)

Lebuhn, G. & **Wiggins, A.** (2020). Evaluating User Experiences with Online Community/Citizen Science Projects in an Undergraduate Class. 105th Annual Meeting of the Ecological Society of America, Online.

Del Bianco, V., Stylinski, C., & **Wiggins, A.** (2020). Embedded Assessment Pursuits: Identifying Important, Relevant, Accessible but Hidden Skills of Citizen Scientists. National Association for Research in Science Teaching Annual International Conference, Portland, OR.

Rosser, H. & **Wiggins, A.** (2019). Emergent genres in online citizen science tutorials. Citizen Science Association Conference, Raleigh, NC.

**Wiggins, A.** (2017). Citizen science infrastructures: Technology appropriation for data management and sharing. National Environmental Monitoring Conference, Washington, DC.

Petluru, S. & **Wiggins, A.** (2017). Designing Participation Experiences to Engage and Retain Long-Term Volunteers. Citizen Science 2017 Conference, St. Paul, MN.

Brier, J. & **Wiggins, A.** (2017). Presentation matters: how teachers assess citizen science projects for classrooms. Citizen Science 2017 Conference, St. Paul, MN.

Bowser, A. & **Wiggins, A.** (2016). A typology of citizen science technologies and tools. Annual Meeting of the Society for the Social Studies of Science, Barcelona, SP.

**Wiggins, A.** & Brier, J. (2016). Evaluating Citizen Science Project Performance: A Science Outcomes Inventory & Implementation Guidelines. 101st Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL.

**Wiggins, A.** (2015). Sensors & Processors: A Human Computation Perspective on Citizen Science & Data Quality. Citizen Science Association Conference, San Jose, CA.

**Wiggins, A.** & He, Y. (2015). Open Knowledge Infrastructures: Emergent Community-based Biodiversity Data Ecosystems. Annual Meeting of the Society for Social Studies of Science, Denver, CO.

**Wiggins, A.**, Young, A., Brody, C., Gerst, M., Kenney, M.A., Lamoureux, A., Rice, A., & Wolfinger, F. (2015). Climate-Related Indicators and Data Provenance: Evaluating Coupled Boundary Objects for Science, Innovation, and Decision-Making. Fall Meeting of the American Geophysical Union, San Francisco, CA. *Selected for oral presentation (10%)*.

**Wiggins, A.** (2009). Tales of the Field: Building Small Science Cyberinfrastructure. Presentation at Society for Social Studies of Science Annual Meeting. Washington, DC.

#### WORKSHOPS (13)

2019, Participant, Qualitative Methods for CSCW: Challenges and Opportunities. ACM International Conference on Computer-supported cooperative work and social computing, Austin, TX.

2018, Invited Participant, Ignite Connecting Technologies & Communities, College Park, MD.

- 2018, Invited Participant, Citizen Science Task Group Writing Retreat, Washington, DC.
- 2018, Participant, Decennial Symposium of the Consortium for the Science of Sociotechnical Systems, Ann Arbor, MI.
- 2017, Invited participant, Sci Foo Camp. Mountain View, CA.
- 2017, Invited participant, Leadership Meeting, Consortium for the Science of Sociotechnical Systems, Isle of Palms, SC.
- 2017, Invited participant, Citizen Science: Design and Engagement. Schloss Dagstuhl Seminar 17272, Dagstuhl, DE.
- 2016, Participant, Breaking into new Data-Spaces: Infrastructure for Open Community Science. ACM International Conference on Computer-supported cooperative work and social computing, San Francisco, CA.
- 2014, Invited participant, Anthropogenic Sensory Stimuli as Drivers of Evolution: A conceptual synthesis and roadmap for an integrated citizen-science research network. Catalysis meeting, National Evolutionary Synthesis Center, Durham, NC.
- 2014, Invited participant, Citizen Science Inventory Workshop. ExCITE Center, Drexel University, Philadelphia, PA, 2014. Participant.
- 2013, Invited participant, 29th Annual Human-Computer Interaction Lab Symposium, Citizen Science Workshop, College Park, MD.
- 2011, Competitively-selected participant, Enhancing Biodiversity Conservation and Environmental Stewardship through Public Participation in Scientific Research. American Museum of Natural History, New York, NY.
- 2009, Invited participant, Sustaining Science Gateways Focus group workshop, Chicago, IL.

#### COLLOQUIA (7)

- Wiggins, A. (2011). Crowdsourcing Scientific Work: Public Participation in Knowledge Production. Social Computational Systems doctoral consortium, Minneapolis, MN.
- Wiggins, A. (2010). Crowdsourcing Science: Organizing Virtual Participation in Knowledge Production. International Conference on Information Systems doctoral consortium, St. Louis, MO.
- Wiggins, A. (2010). Crowdsourcing Science: Organizing Virtual Participation in Knowledge Production. ACM International Conference on Supporting Group Work doctoral consortium, Sanibel Island, FL.
- Wiggins, A. (2010). Crowdsourcing Science: Organizing Virtual Participation in Knowledge Production. Organizational Communication and Information Systems Division doctoral consortium, Academy of Management, Montreal, QC.
- Wiggins, A. (2010). Crowdsourcing Science. Consortium for the Science of Sociotechnical Systems Summer Research Institute, Stevenson, WA.
- Wiggins, A. (2009). Coordination Dynamics in Free/Libre Open Source Software Development. Fifth International Conference on Open Source Software doctoral consortium, Skövde, SE.
- Wiggins, A. (2009). Interdisciplinary Diversity in the iSchool Community. iConference 2009 doctoral consortium, Chapel Hill, NC.

#### MEDIA APPEARANCES (9)

- 2019, Weekendavisen (Danish weekly broadsheet newspaper), Quoted in April 26 article, "Forskningens fodsoldater." <https://www.weekendavisen.dk/2019-17/ideer/forskningens-fodsoldater>.
- 2018, Science, Quoted in January 19 article, "U.S. scientists on edge as government shutdown looms." DOI: 10.1126/science.aat0610.
- 2017, 2Scientists podcast, Interviewee for monthly public communication of science podcast. <https://2scientists.org/podcast/people-power>,

- 2016–2017, BioCubes exhibit, Smithsonian Institution National Museum of Natural History. Appearances in multiple exhibit photographs from NSF CyberSEES grant project.
- 2016, @IamCitSci. Host for Twitter account with rotating weekly guests.
- 2015, Diane Rehm Show: The Environmental Outlook: Citizen Science, National Public Radio. In-studio panelist for nationally-syndicated radio show. <http://thedianerehmshow.org/shows/2015-05-05/the-environmental-outlook-citizen-scientists>
- 2015, #CitSciChat: environmental monitoring and metrics to measure the success of citizen science. Guest panelist on weekly hosted Twitter chat on citizen science topics, sponsored by SciStarter.com and Discover Magazine.
- 2015, Are You Ready for Citizen Science?, *Spokes*. Interviewee quoted in article in monthly digital magazine of Ecsite, the European network of science centres and museums.
- 2015, "An Expert on Amateurs," *Between the Columns*. Featured in print magazine for the faculty and staff of the University of Maryland.

### Sponsored Research (Total \$484,312)

- Grover, A. (PI) & Hale, M. Phish Finders: Exploring Trust Behaviors with the Crowd  
UCRCA, \$10,000. June 2020–June 2021.
- Wiggins, A. (PI). Toward a Science of Citizen Science  
Nebraska Research Institute, \$160,000. April 2018–June 2020.
- Wiggins, A. (co-PI). Streamlining Embedded Assessment to Understand Citizen Scientists' Skill Gains  
Subaward, NSF 1713424, \$98,307. Grant total: \$1,155,777. September 2017–August 2021.
- Wiggins, A. (PI), Law, E., Preece, J., Shirk, J., Newman, G., Williams, A., & Brier, J. Advancing the Science of Citizen Science  
University of Maryland iSchool Research Impact Grant Track II: Impact Magnification, \$2,750. December 2016–December 2017.
- Wiggins, A. (PI) Developing a Science Outcomes Inventory and Implementation Framework for Citizen Science Project Evaluation  
U.S. Geological Survey Cooperative Agreement G16AC00267, \$29,737. July 2016–June 2018.
- Flanagan, M. (Dartmouth College, PI), Fraistat, N. (co-PI), & Wiggins, A. (co-PI). Engaging the Public: Best Practices for Humanities Crowdsourcing  
National Endowment for Humanities HC-229771, \$35,960. May 2015.
- Fraistat, N. (PI), Wiggins, A. (co-PI), & Flanagan, M. (co-PI, Dartmouth College). Engaging the Public: Best Practices and Opportunities in Scholarly Crowdsourcing Across the Disciplines  
Alfred P. Sloan Foundation G-2014-13799, \$19,858. May 2015.
- Wiggins, A. (PI) & Kenney, M. (co-PI). Climate-related Indicators and Data Provenance: Evaluating Coupled Boundary Objects for Science, Innovation, and Decision-Making  
Subaward, ADVANCE: Crafting A Culture of Investment, NSF HRD 10-08117, \$27,700. April 2015–March 2016.
- Wiggins, A. (PI) & Preece, J. (co-PI). CyberSEES: Collaborative Research: Infrastructure and Technology Support for Citizen Science Data Use and Distribution for Education and Sustainability  
NSF CCF 14-42668, \$100,000. Project total: \$371,045. January 2015–December 2016.

## Teaching and Advising

### SPONSORED TEACHING ACTIVITIES

- Wiggins, A. Open Educational Resources award, Spring 2019, University of Nebraska at Omaha. \$2500.
- Wiggins, A. UCAT award for course redesign, Spring 2018, University of Nebraska at Omaha. \$500.

### COURSES TAUGHT

#### UNIVERSITY OF NEBRASKA AT OMAHA, COLLEGE OF INFORMATION SCIENCE & TECHNOLOGY

- CIST 3110, IT Ethics. Spring 2021, 2 sections, 41 students.
- CIST 3110, IT Ethics. Fall 2020, 2 sections, 56 students.
- CIST 3110, IT Ethics. Spring 2020, 29 students.
- ISQA 3420, Managing in a Digital World. Spring 2020, 21 students.
- ISQA 3420, Managing in a Digital World. Fall 2019, 19 students.
- ISQA 4000/8086, Special Topics: From Data to Decisions. Fall 2019, 17 students.
- CIST 3110, IT Ethics. Spring 2019, 29 students.
- ISQA 3420, Managing in a Digital World. Spring 2019, 29 students.
- ISQA 8086, Special Topics: From Data to Decisions. Fall 2018, 21 students. Service learning course.
- ISQA 3420, Managing in a Digital World. Fall 2018, 28 students.
- ISQA 3420, Managing in a Digital World. Spring 2018, 28 students. Service learning course.
- ISQA 8086, Special Topics: From Data to Decisions. Fall 2017, 23 students.
- ISQA 3420, Managing in a Digital World. Fall 2017, 20 students.

#### UNIVERSITY OF MARYLAND, COLLEGE OF INFORMATION STUDIES

- INST 728R, Special Topics in Information Studies: Data Management. Spring 2017, 10 students. Service learning course.
- INFM 600, Information Environments. Fall 2016, 2 sections, 45 students. Complete redesign.
- INST 728R, Special Topics in Information Studies: Data Management. Spring 2016, 6 students. New course.
- INFM 600, Information Environments. Fall 2015, 2 sections, 36 students. Partnership for Action Learning in Sustainability service learning course.
- INFM 600, Information Environments. Spring 2015, 18 students.
- INFM 600, Information Environments. Fall 2014, 24 students.

#### UNIVERSITY OF NEW MEXICO, DATAONE

- Data Management Education Summit, 2012–2013; *Editor*

#### SYRACUSE UNIVERSITY, SCHOOL OF INFORMATION STUDIES

- IST 600, Workflows: eScience and eResearch. Fall 2011, *Instructor*. 8 students. New course.
- IST 777, Statistical Methods in Information Science and Technology, 2008; *Practicum*
- IST 500, Distributed Collaboration and Emerging Technologies, 2008; *Practicum*
- IST 400/600, Science Data Management, 2008; *Practicum*
- IST 668, Literacy Through School Libraries, 2008; *Assistant*
- IST 972, School Media Practicum, 2007–2008; *Assistant*
- IST 335, Introduction to the Information-Based Organization, 2007; *Practicum*

#### UNIVERSITY OF BRITISH COLUMBIA

- Web Analytics for Site Optimization, 2006; *Associate Instructor*. New course.

## ADVISING

## INDEPENDENT STUDIES (6)

CIST 9970, Research Other Than Thesis. Spring 2020, Vinod Ahuja. University of Nebraska at Omaha.

CIST 9080, Mini project. Fall 2019, Fatemeh Shapouri. University of Nebraska at Omaha.

INST 810, Individual Research Experience. Spring 2017, Lisa Federer. University of Maryland.

INST 809, Individual Teaching Experience. Fall 2016, Jonathan Brier. University of Maryland.

INST 810, Individual Research Experience. Fall 2016, Ed Summers. University of Maryland.

INFM 719, Independent Study. Spring 2016, Snigdha Petluru. University of Maryland.

## MS THESES (3)

Jordan Penn (MIS), Summer 2020–current. MS thesis committee member. University of Nebraska at Omaha.

Holly Rosser (MIS), Fall 2017–December 2018. MS thesis supervisor. University of Nebraska at Omaha.

Vinod Ahuja (MIS), Spring 2018–December 2018. MS thesis committee member. University of Nebraska at Omaha.

## PHD DISSERTATIONS (9)

Anna Cigarini (Information and Knowledge Society), Spring 2020–current. PhD committee member. Universitat Oberta de Catalunya.

Holly Rosser (Information Technology), Spring 2019–current. PhD advisor. University of Nebraska at Omaha.

Jonathan Brier (Information Studies), Fall 2015–current. PhD committee member. University of Maryland.

Suzi Spitzer (Marine, Estuarine, & Environmental Science), Fall 2015–current. PhD committee member. University of Maryland.

Matt Mauriello (Computer Science), Fall 2016–Summer 2018. PhD committee member. University of Maryland.

Lisa Federer (Information Studies), Fall 2016–Spring 2017. PhD advisor. University of Maryland.

Kotaro Hara (Computer Science), Summer 2016. PhD committee member. University of Maryland.

Yurong He (Information Studies), Fall 2014–Spring 2016. PhD committee member. University of Maryland.

Anne Bowser (Information Studies), Fall 2013–Spring 2015. PhD committee member. University of Maryland.

## EXTERNAL THESIS EXAMINER (1)

Mark Cottman-Fields, Queensland University of Technology, 2016.

## POSTDOCTORAL SCHOLARS (2)

Alyson Young, Summer 2015. Postdoctoral supervisor. University of Maryland.

Veronica Del Bianco, July 2019–December 2021. Postdoctoral co-supervisor. University of Nebraska at Omaha.

---

## Reviewing

### EDITORIAL BOARDS

2018–current, Associate Editor, *Frontiers in Ecology and the Environment*

2018–2021, Associate Editor, *Citizen Science: Theory & Practice*

2015–2018, Editor-at-large, *Citizen Science Today*

### JOURNALS

2021: BioScience; Ecological Informatics; Scientific Reports

2020: Human-Computer Interaction

2019: Journal of the American Medical Informatics Association Open, Trends in Ecology & Evolution

2018: BioScience (2); Connected Science Learning; Ecological Applications; Journal of Science Communication; Journal of the American Society for Information Science & Technology; Social Media & Society

2017: Citizen Science: Theory & Practice; International Journal of Human-Computer Studies; Connected Science Learning

2016: International Journal of Human-Computer Studies

2015: Science & Technology Studies

2014: Journal of the American Society for Information Science and Technology; Human Computation Journal; The Information Society; Journal of Coastal Research

2013: International Journal of the Commons

2012: CSCW Journal; Journal of Computer Mediated Communication

2011: Trends in Ecology & Evolution

### AGENCIES & FOUNDATIONS

2019: NSF Advancing Informal Stem Learning Program (panelist)  
NSF Division of Earth Sciences Geoinformatics Program (reviewer)  
Israeli Ministry of Science and Technology (reviewer)

2018: Austrian Science Fund (reviewer)

2017: Austrian Science Fund (reviewer)  
Israel Science Foundation (reviewer)  
NSF Science, Technology, and Society Program (reviewer)  
NSF Social, Behavioral, and Economic Sciences Division (panelist)  
National Geographic Society (reviewer)

2016: NSF Cyber-Human Systems Program (panelist)  
NSF Science, Technology, and Society Program (reviewer)  
NAS Gulf Research Program Exploratory Grants (reviewer)  
Social Sciences and Humanities Research Council of Canada Insight program (reviewer)  
Swiss National Science Foundation (reviewer)

2015: Woods Hole Sea Grant Program (reviewer)

2014: NSF Cyber-Human Systems Program (reviewer)  
NSF Science, Technology, and Society Program (reviewer)

## CONFERENCE PROGRAM COMMITTEES

- 2022, ACM International Conference on Supporting Group Work
- 2020, ACM International Conference on Supporting Group Work (2 rounds)
- 2019, ACM International Conference on Computer-supported cooperative work & social computing
- 2018, ACM International Conference on Supporting Group Work
- 2018, ACM International Conference on Computer-supported cooperative work & social computing, Posters
- 2016, AAAI Conference on Human Computation & Crowdsourcing
- 2011, iConference

## CONFERENCE REVIEWER

- 2015, 2016 Citizen Science Association
- 2014, ACM International Joint Conference on Pervasive & Ubiquitous Computing
- 2013–2015, International Symposium on Open Collaboration
- 2012, Conference on Public Participation in Scientific Research
- 2012, International Conference on Wikis & Open Collaboration
- 2010–2019, ACM International Conference on Computer-supported cooperative work & social computing
- 2010–2018, ACM International Conference on Human Factors in Computing
- 2010–2012, International Conference on Information Systems
- 2010, American Society for Information Science & Technology Annual Meeting
- 2010, European Academy of Management Annual Meeting
- 2009–2011, International Conference on Open Source Systems
- 2009–2011, 2016, 2018, 2019 Hawai'i International Conference on Systems Sciences
- 2008, International Conference on Weblogs and Social Media

**Committees, Professional, & Campus Service**

## PROFESSIONAL MEMBERSHIPS

- 2017–2019, Member, CODATA Citizen Science Task Group
- 2015–current, Member, Citizen Science Association Data & Metadata Working Group
- 2015–current, External Faculty, Human Computation Institute
- 2015–current, Member, Citizen Science Association
- 2015–2017, Member, American Geophysical Union
- 2012–2013, Member, Avian Knowledge Network Steering Committee
- 2011–2014, Member, DataONE Working Group on Public Participation in Scientific Research
- 2010–2017, Member, Ecological Society of America
- 2008–2012, Member, Association for Information Systems



2005–current, Member, Association for Computing Machinery & SIGCHI

#### SERVICE TO THE PROFESSION

- 2021, Workshop co-organizer, “Identifying and Articulating Hidden and Critical Observational Subskills in Your Citizen Science Project,” CitSci Virtual 2021, Online. Del Bianco, V., Styliniski, C. Phillips, T., Peterman, K., Becker-Klein, R., Grover, A.
- 2020, General Co-Chair, ACM International Conference on Computer-supported cooperative work & social computing. Conversion to quarterly deadlines and virtual format, colocation with UIST.
- 2019, Workshop co-organizer, “Evaluating the social health and sustainability of citizen science communities,” Citizen Science Association Conference 2019, Raleigh, NC. Brier, J., Wiggins, A., Goggins, S.
- 2018, Workshop co-organizer, “Open Online Community Health & Sustainability,” Omaha, NE. Germonprez, M., Wiggins, A., Goggins, S.
- 2018–current, Advisory board member, “WeGlobal: African Americans Living Abroad Research and Education Program”
- 2017–2022, Advisory board member, “Embedded Assessment and Innovation Adoption for SciStarter 2.0: Understanding Participant Dynamics and Outcomes in a Landscape of Citizen Science Projects,” NSF DRL 1713562. North Carolina State University, Raleigh, NC.
- 2017, Conference track co-organizer, “Citizen Science: Beyond the Laboratory,” Annual Meeting of the Society for the Social Studies of Science, Boston, MA. Mugar, G., Wiggins, A., Osterlund, C., & LaLone, N. 3 sessions.
- 2017, Conference symposium co-organizer, “Waypoints of Science: The Design, Development and Delivery of Citizen Science as Bonafide Science,” Citizen Science Association Conference, St. Paul, MN. Parrish, J., Wiggins, A., & Weltzin, J. Convened 8 speakers.
- 2017, Workshop co-organizer, “Science of Citizen Science: Theories, Methodologies, and Platforms,” ACM International conference on Computer-supported cooperative work and social computing. Law, E., Wiggins, A., Shirk, J., Newman, G., Preece, J., Williams, A., & Brier, J.
- 2016–2017, Proceedings co-chair, 2017 ACM International Conference on Computer-supported cooperative work and social computing
- 2016, Conference track co-organizer, “Citizen Science: Beyond the Laboratory,” Annual Meetings of the Society for the Social Studies of Science & the European Association for the Study of Science and Technology. Barcelona, SP. Mugar, G., Wiggins, A., & Osterlund, C. 3 sessions.
- 2016, Mentor, Consortium for the Science of Sociotechnical Systems Summer Institute. Skamania, WA.
- 2016, Advisory workshop participant, “Our Red Planet”. National Aeronautics and Space Administration, Goddard, MD.
- 2016, Invited participant, “Engaging Participants as Partners in Research”. White House Office of Science and Technology Policy & Stanford MedicineX, Washington, DC.
- 2015–2016, Co-Chair, Open Collaboration Data Factories Metadata Working Group.
- 2015, Workshop co-organizer, “Engaging the Public: Best Practices for Crowdsourcing Across the Disciplines.” Fraistat, N., Wiggins, A., & Flanagan, M. 2.5-day invitational workshop with 60 participants, supported by NEH, IMLS, and Sloan Foundation. College Park, MD
- 2015, Conference symposium organizer, Citizen Science Association Conference, “Human-Centered Technologies for Citizen Science.” San Jose, CA. Convened 13 speakers.
- 2015, Advisory workshop participant, “Legal, Ethical, and Social Implications of Biomedical Citizen Science”. National Institutes for Health, Rockville, MD.

- 2015, External reviewer, Federal Crowdsourcing & Citizen Science Toolkit, Federal Community of Practice on Crowdsourcing and Citizen Science. One of four external reviewers on Federal toolkit authored by 125 agency staff; only academic external reviewer.
- 2014–2017, Member, Consortium for the Science of Sociotechnical Systems, Advisory board.
- 2014–2015, Proceedings co-chair, 2015 ACM International Conference on Computer-supported cooperative work and social computing
- 2014, Co-facilitator, “VGI and Citizen Science: engaging, creating and understanding,” Vespucci Summer Institute on Geographic Information Systems, EU COST European Network Exploring Research into Geospatial Information Crowdsourcing, Fiesole, IT.
- 2014, Workshop co-organizer, “Quality Hackathon: Evaluating the Products of Online Co-Production Systems,” ACM International Conference on Supporting Group Work. Wiggins, A., Goggins, S., D. Gurzick, D., & Butler, B.
- 2014, Steering committee member, “Tracking a Changing Climate: Citizen Science Contributions to the National Climate Assessment”. U.S. Global Change Research Program, Washington, DC.
- 2014, Advisory workshop participant, “Collaboration for Team Science Planning”. National Science and Technology Council Networking and Information Technology Research and Development (NSTC-NITRD) program on Social, Economic, and Workforce Implications of IT, Austin, TX.
- 2014, Advisory workshop participant, “Human Computation Roadmap Summit”. Computing Research Association, Washington, DC.
- 2014, Workshop co-organizer, “Online Communities Data Hackathon,” ACM International conference on computer-supported cooperative work and social computing. Goggins, S., Wiggins, A., Butler, B. & Winter, S.
- 2013–current, Advisory board member, Aurorasaurus Project. Los Alamos Consortium & NASA.
- 2012–2017, Steering committee member, Biocubes Project. National Museum of Natural History, Smithsonian Institution.
- 2012–2014, Member, Consortium for the Science of Sociotechnical Systems, Infrastructure Team.
- 2012, Advisory workshop participant, USA National Phenology Network, Milwaukee, WI.
- 2012, Workshop co-organizer, “Data Intensive Collaboration in Science and Engineering,” ACM International conference on Computer-supported cooperative work. Bietz, M., Wiggins, A., Aragon, C., & Handel, M.
- 2011–2013, Co-Chair, DataONE Working Group on Public Participation in Scientific Research.
- 2011, Advisory board member, “Investigating Audience Engagement with Citizen Science,” NSF DRL 09-17608. Adler Planetarium, Chicago, IL.
- 2010–2011, Workshop co-organizer, “Design for Citizen Science,” NSF-funded invitational workshop with 40 participants. Blue Mountain Lake, NY. Crowston, K. & Wiggins, A.
- 2010, Advisory workshop participant, “Integrating Citizen Science into the Scientific Monitoring of Phenology”. Northeast Regional Phenology Network, Durham, NH.
- 2009–2011, Project/Area Liaison for myGrid, University of Manchester, School of Computer Sciences, Manchester, UK.
- 2009, Invited Representative for myGrid, JISC UK eScience Review, Oxford, UK.
- 2006, Member, Organizing Committee, iConference 2006.

#### SERVICE TO THE UNIVERSITY

- 2021–current, Member, Research Data Management Policy Implementation Committee, University of Nebraska (system)

2019–2022, Bachelors in Multidisciplinary Studies Faculty Academic Policy Committee, Division of Continuing Studies, University of Nebraska at Omaha

2015–2017, Chesapeake Project Faculty Fellow, University of Maryland Office of Sustainability

2015–2016, Partnership for Action Learning in Sustainability, University of Maryland National Center for Smart Growth Research & Education

#### SERVICE TO THE COLLEGE

2021–2023, Member, Personnel Committee, University of Nebraska at Omaha College of Information Science & Technology

2020–2021, Member, IT Innovation Faculty Search Committee, University of Nebraska at Omaha College of Information Science & Technology

2020–2021, Member, IT Innovation NCITE Faculty Search Committee, University of Nebraska at Omaha College of Information Science & Technology

2020–2022, Member, IT PhD Doctoral Program Committee, University of Nebraska at Omaha College of Information Science & Technology

2018–current, Member, Human-Centered Computing PhD Concentration Faculty Governance Committee, University of Nebraska at Omaha College of Information Science & Technology

2018, Member, Academic Integrity Appeal Committee (3 cases), University of Nebraska at Omaha College of Information Science & Technology

2016–2017, Chair, Merit Pay Committee, University of Maryland College of Information Studies

2015–2016, Member, Communications & External Relations Committee, University of Maryland College of Information Studies

2015–2016, Member, Open Rank Faculty Search Committee, University of Maryland College of Information Studies

2015–2016, Member, College Advisory Committee, University of Maryland College of Information Studies

2015, Member, Targeted Search Advisory Committee, University of Maryland College of Information Studies

2014–2017, Member, Masters of Information Management Program Committee, University of Maryland College of Information Studies

2014–2017, Member, Committee on Appointments, Promotions & Tenure, University of Maryland College of Information Studies

2010–2011, Member, Personnel Committee (5 cases), Syracuse University School of Information Studies

2008–2010, Member, Doctoral Programs Committee, Syracuse University School of Information Studies

2008–2009, PhD Student Peer Mentor, Syracuse University School of Information Studies

2008, Member, Open Rank Faculty Search Committee (8 positions), Syracuse University School of Information Studies

2007–2008, PhD Student Representative to Faculty, Syracuse University School of Information Studies

#### SERVICE TO THE DEPARTMENT

2020, Member, ISQA Professional Development Committee, University of Nebraska at Omaha College of Information Science & Technology

2019, Member, ISQA Undergraduate Program Committee, University of Nebraska at Omaha College of Information Science & Technology

2018, Member, ISQA Undergraduate Program Committee, University of Nebraska at Omaha College of Information Science & Technology

2017, Member, ISQA Graduate Program Committee, University of Nebraska at Omaha College of Information Science & Technology

#### SERVICE TO THE COMMUNITY

2019–current, Certified Nebraska Master Naturalist

2018, Event volunteer, Nebraska Science Festival, Omaha, NE

2018, Invited participant, Metro Science and Engineering Fair, Omaha, NE

## Honors & Awards

*Sheer Awesomeness*, Masters of Information Management Student Association, University of Maryland, 2017.

*Most Energetic Professor*, Masters of Information Management Student Association, University of Maryland, 2016.

*Honorable Mention*, ACM CSCW, 2016. Award for peer-reviewed research paper, 5% selection rate among accepted submissions.

*All-University Doctoral Dissertation Prize*, Syracuse University, 2012.

*Best Poster Award*, iConference 2011. One of three best posters out of 100 refereed presentations.

*Phi Kappa Phi*, Syracuse University, 2008.

*Academy of Management Reader's Choice Award for Most Informative Comment*, Organizational Communication and Information Systems Division Student Blog Contest, 2008.

*School of Information Studies Fellowship*, Syracuse University, 2007.

*Stephen Markel Award*, University of Michigan School of Information, 2006.

*Segal AmeriCorps Education Award*, National Service Trust, 2001. Award recognizing national service.

## Other Activities

#### INTERNATIONAL ACTIVITIES

Academic Visitor, August 2015. Zooniverse, University of Oxford, Department of Physics, Oxford, UK.

Visiting Scholar, June–July 2011. Institut Télécom Bretagne, Département de Logique des usages, sciences sociales et de l'information (LUSSI), Technopole Brest-Iroise, FR.

Academic Visitor, June 2009. myGrid, University of Manchester, School of Computer Sciences, Manchester, UK.

#### EMPLOYMENT EXPERIENCE

2005–2007: *Enlighten* Ann Arbor, MI — Data Analyst

2002–2005: *The Purple Rose Theatre Company* Chelsea, MI — Office Manager

2001–2002: *Nonprofit Enterprise at Work* Ann Arbor, MI — Education Program Associate

2000–2001: *Washtenaw Literacy* Ypsilanti, MI — Volunteer Coordinator (AmeriCorps\*VISTA)