**CURRICULUM VITAE**

Hong Cui

Professor

School of Information, University of Arizona

hongcui@email.arizona.edu

**Chronology of Education**

1998-2001 Ph. D. University of Illinois at Urbana-Champaign

2002-2005 Major Field: Library and Information Science

Dissertation: “Automating Semantic Markup of Semi-Structured Text via an Induced Knowledge Base: A Case-Study Using Floras.”

Advisors: Linda C. Smith and Bryan P. Heidorn

2001-2002 M. S. University of Illinois at Urbana-Champaign

 Major Field: Computer Science

1994-1997 M. S. Graduate University of Chinese Academy of Sciences Major Fields: Information Science

 Thesis: “A Study on Citation Behavior of Chinese Scientists.”

 Advisor: Yitai Gong

1989-1994 B. S. Tongji Medical University (now Tongji Medical College of

 Huazhong University of Science & Technology)

 Major Field: Medical Information

**Chronology of Employment**

July 2019-present Professor, School of Information, University of Arizona

2022 Affiliate faculty of Title VI National Resource Center (granted by the Department of Education, PI. Dr. Wenhao Diao)

July 2013-Jun 2019 Associate Professor, School of Information, University of Arizona

July 2007-May 2013 Assistant Professor, School of Information Resources and Library Science (SIRLS, now the School of Information), University of Arizona

Jan 2005-May 2007 Assistant Professor, Faculty of Information and Media Studies, University of Western Ontario, Canada

Aug 1998-Dec 2004 Graduate Research and Teaching Assistant, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign

Aug 1997-Jun 1998 Assistant Librarian, Shanghai Documentation and Information Center of the Chinese Academy of Sciences

**Honors and Awards**

2019 Students’ Choice Award, Spring 2019. Library and Information Student Organization, School of Information, University of Arizona

2017 XIX International Botanical Congress 2017 Speaker Award

2015 Best Poster Award, SEPEEG 2015

 “Semi-automated extraction of phenomic characters from taxonomic descriptions: natural language processing approaches for the Tree of Life.”

2011 Outstanding Full-Time Faculty Award, Fall 2011, Library Student Organization, School of Information Resources and Library Science, University of Arizona

2011 Outstanding Full-Time Faculty Award, Spring 2011, Library Student Organization, School of Information Resources and Library Science, University of Arizona

2009 Outstanding Full-Time Faculty Award, Spring 2009, Library Student Organization, School of Information Resources and Library Science, University of Arizona

2009 Most Progressive Full-Time Faculty Award, Spring 2009, Progressive Librarians Guild SIRLS chapter, University of Arizona.

2007 Beta Phi Mu International Library and Information Studies Honor Society

2005 The Berner Nash Memorial Award for outstanding doctoral dissertation, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign

2004 The Incomplete List of Teachers Ranked as Excellent by Their Students, University of Illinois at Urbana-Champaign

2004 Jean Tague-Sutcliffe Award, Association for Library and Information Science Education

2002 Fellowship, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign

**Service/Outreach** (limited to period in current rank)

Local/State Service and Outreach

2022 Guest lecture for INFO 505 Foundation of Information

2021 Share INFO 505 and INFO 523 course sites with iSchool faculty

2021- Free consultation for Dr. Brown’s “A Multi-Factor Predictive Model to Improve Miner Health and Safety Outcomes” project, internally funded.

2019-2022 Free consultation for the USDA funded project, “CIG Grazing Land Information System” on semantic information systems and automated text classification

2021 Faculty advisor for iVoice project on creating a controlled vocabulary

2020 Faculty Presenter for UA Human Language Technology 2020 Homecoming

2019 Reviewer, UA Foundation Small Grants Supporting UA Strategic Plan

2017 Guest lecture for INFO 505 Foundations of Information

2016 Guest lecture for INFO 505 Foundations of Information

2014 Provided assistance in validating XML files received by University of Arizona Press

National/International Outreach

2009-present Member, Information Technology Committee of Flora of North America Project

2009-present Member, Plazi.org, a Switzerland-based association supporting and promoting the development of persistent and openly accessible digital taxonomic literature

2016-present Review Editor, Journal of Association for Information Science and Technology

2021 Session Organizer of “Towards computable publications: Author-driven FAIR data production” for [SciDataConf 2021](https://codata.org/call-for-sessions-scidatacon-2021-part-of-international-data-week-2021/)

2021 Session leader, GBIF global consultation on digital extended specimens, [phase 2](https://discourse.gbif.org/t/digital-extended-specimens-phase-2/2651).

2020-2021 Member, Master’s Committee of Dylan Longert, University of Ottawa

2020 External Reviewer for a faculty promotion case of UIUC

2019-2020 Short paper reviewer for iConference

2016-18 Member, Program Committee, iConference, an annual conference for

 iSchools and information science professionals around the globe.

2016-18 Treasurer, Arizona Chapter, the Association for Information Science and

 Technology

2009-18 Ad Hoc Reviewer, Natural Sciences and Engineering Research Council of

 Canada (2009, 2011, 2012, 2014, 2015, 2018)

2018 Organizer and host, Joint ETC-Author Project Meeting, around 20 world-class biologists, biodiversity informaticians, computer and information scientists participated in this NSF funded meeting

2017 Member, Proposal Review Panel, National Science Foundation on Big Data

2017 Member, Proposal Review Panel, National Science Foundation on Bioinformatics

2017 Chair, Program Committee, Ontologizing Botanical Knowledge Symposiums, International Botany Congress 2017

2016 Chair, Southwest Chapter, Chinese American Librarian Association

2016 Co-chair, Membership Committee, Chinese American Librarian Association

2016 Chair, ProQuest ASIST Dissertation Award Jury

2016 Trainer, Next Generation Phenomics End User Workshop, Botany 2016 Meeting

2016 Member, Program Committee, Semantics and Ontology Symposium, Biodiversity Information Standards 2016 Meeting (formally Taxonomic Database Working Group)

2013-15 Project Advisor, the Art of Life project, funded by National Endowment for the Humanities

2015 Organizer and co-host, ETC Information Visualization Workshop

2015 Co-organizer and host, Next Generation Phenomics Annual Project Meeting

2015 Technical Reviewer, Maryland Industrial Partnerships Program

2013-14 Project Advisor, Pro-ibiosphere project, funded by the European Union

National and International Service: Ad Hoc Reviewer for Journals/Conferences

*Journal of the American Society for Information Science and Technology*

*Biodiversity Informatics*

*Computational Intelligence*

*IEEE/ACM Transactions on Computational Biology and Bioinformatics*

*International Journal of Library and Information Science*

*Biodiversity Data Journal*

*Bioinformatics*

*iConference*

*Interdisciplinary Sciences: Computational Life Sciences*

*Electronics*

Invited Participation/Leadership at Professional Meetings

2021 Organizer and Session Chair on “Towards computable publications:

 Author-driven FAIR data production” at [SciDataCon](https://codata.org/call-for-sessions-scidatacon-2021-part-of-international-data-week-2021/) 2021 Virtual

2019 Session Chair on “Information Organization” at 82th Annual Meeting Association of Information Science and Technology

2017 Session Chair on “Ontologizing Botanical Knowledge” at XIX International Botany Congress, 2017, Shenzhen, China

2016 Session Chair on “Health Informatics” at iConference 2016

2016 Panel Member, Early Career Colloquium, at iConference 2016

Departmental Committees

2022 Member, P&T Committee for Dr. Peter Jason

2021 Member, Faculty Annual Review Committee

2020 Member, Faculty Annual Review Committee

2020 Chair, P&T Committee for Dr. Jamie Lee

2020 Member, Archival and Digital Preservation Faculty Search Committee

2020- Junior Faculty Mentor (Dr. Ren Bozgeyikli)

2019 Member, P&T Committee for Dr. Steven Barthard

2019 Member, 3rd Year Review for Dr. Peter Jansen

2019 Member, Faculty Status Committee for Dr. Ren Bozgeyikli

2019 Chair, ALA Accreditation Self-Study Report, Chapter II Curriculum

2019 Chair, Promotion Committee for Dr. Winslow Burleson

2019 Chair, HCI Faculty Search Committee

2015-2018 Director of Graduate Studies

2015-2018 Chair, Graduate Committee, and Advanced Studies Committee

2015-2018 Chair, Financial Aid Committee

2015-2018 Member, Executive Committee

2015-2018 Advisor, Master of Science Program

2013-2018 Member, Curriculum Committee

2017 Chair, Search Committee for Human Communication Interaction/Computational Arts Cluster Assistant/Associate Professor

2017 Alternative Member, Faculty Annual Review Committee

2017 Chair, 3rd-year Review Committee for Dr. X.

2016 Chair, P&T Review Committee for Dr. X

2016 Member, Search Committee for Data Search Assistant Professor

2013-2014 Chair, Master of Science Curriculum Proposal Committee

2013-2014 Graduate Advising Coordinator

2012-2014 School of Information Planning Committee

College Committees

2020 Member, SBS P&T Committee

2020 Member, Search Committee for the Director of SBS Tech

2018 Member, SBS University Fellowship Review Panel

2017-present Member, SBS Research Intuition Board

2016 Member, SBS IT Advisory Board

University Committee

2022- Co-Chair and Chair of University of Arizona Graduate Council

2017-2019 Member, Graduate Council

**Publications/Creative Activities (Published or Accepted)**

\* Denotes publication based on work done as graduate student

\*\* Corresponding author

Chapters in Scholarly Books

Carrine, E. B, **Cui, H.,** Mao, J., Moore, L.R., Thacker, R.W., & Walls, R. L. (2018) Accelerating the Large-Scale Study of Prokaryotic Phenotypes and Niche Space Evolution Through Time Using the MicrO Ontology, MicroPIE, and MicroPIEDigester. *Software In Application of Semantic Technologies in Biodiversity Science*, Ed. Anne Thessen DOI: [10.3233/978-1-61499-854-9-151](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.3233/978-1-61499-854-9-151)

**Cui, H**., Sai, D., & Tang, X. (2007). Chapter 3: Information Representation. In Heting Chu & Yin Zhang. (Eds.), *Research Fronts in Library and Information Science in the West*. Beijing: Renmin University Press. (Series on Research Fronts in the Humanities and Social Sciences in the West). [in Chinese]

Refereed Journal Articles

Zhang, L., & **Cui, H.** (2022). Reliability of MUSE 2 and Tobii Pro Nano at capturing mobile application users’ real-time cognitive workload changes. *Frontiers in Neuroscience*, *16*. <https://www.frontiersin.org/articles/10.3389/fnins.2022.1011475>

**Cui, H**. \*\*, Ford, B., Starr, J., Reznicke, A., Zhang, L., & Macklin, A. J. (2022) Authors’ attitude toward adopting a new workflow to improve the computability of phenotype publications. *Database (Oxford)*: *The Journal of Biological Databases and Curation.* DOI: <https://doi.org/10.1093/database/baac001>

Zhang, L., Yang, X., Cota, Z., **Cui, H.,** Ford, B., Cheng, H-L., Macklin, J. Reznicek, A.,& Starr, J\*\*., (2021) Which methods are the most effective to enable novice users to participate in FAIR ontology creation? A usability study. *Database (Oxford)*: *The Journal of Biological Databases and Curation.* DOI: <https://doi.org/10.1093/database/baab035>

**Cui, H**.\*\*, Zhang, L., Ford, B., Cheng, H-L., Macklin, J., Reznicek, A. Starr, J. (2020) Measurement Recorder: developing a useful tool for making species descriptions that produces computable phenotypes. *Database (Oxford).* DOI: 10.1093/database/baaa079/5995854

Yu, F., Ruel, L., Tyler, R., Xu, Q., **Cui, H**., Karanasios, S., Rutkowska, A., Nguyen, B., & Mostafa, J. (2020) Innovative UX methods for information access based on interdisciplinary approaches: Practical lessons from academia and industry. *Data and Information Management* Vol. 4 No. 1. DOI:  <https://doi.org/10.2478/dim-2020-0004>

**Cui, H.\*\*,** Macklin, J.A.,  Sachs, J., Reznicek, A., Starr, J., Ford, B., Penev, L., Chen, H.L., (2018) Incentivizing use of structured language in biological descriptions: Author-driven phenotype data and ontology production. *Biodiversity Data Journal* 6: e29616. https://doi.org/10.3897/BDJ.6.e29616.

Endara,L., Thessen, A.E., Cole, H.A., Walls, R., Gkoutos, G., Cao, Y., Chong, S.S., **Cui, H\*(2018)**. Modifier Ontologies for frequency, certainty, degree, and coverage phenotype modifiers*. Biodiversity Data Journal* 6: e29232. <https://doi.org/10.3897/BDJ.6.e29232>.

Pender, J., Sachs.J.L., Macklin, J.A., **Cui, H.,** Vallance, A., Lujan-Toro, B., Rodenhausen, T., Belisle-Leclerc, M., Levin, G. (2018). Bringing a Semantic MediaWiki Flora to Life *Biodiversity Information Science and Standards* 2: e25885. https://doi.org/10.3897/biss.2.25885

Dahdul, W., Manda, P**., Cui, H**., Balhoff, J., Dececchi, A., Ibrahim, N., Lapp, H., Mabee, P., & Vision, T. (2018). Annotating phenotypes using ontological concepts: Inter-curator consistency as a baseline for evaluating the performance of a natural language processing system. *Database (Oxford).* <https://doi.org/10.1093/database/bay110>. The corpus in the different formats, as well as the ontologies and annotations generated in its production, have been archived at Zenodo (https://doi.org/10.5281/zenodo.1217594). The source code for the analysis of inter-curator and SCP consistency based on semantic similarity metrics, as well as the data and ontologies used as input, have been archived separately, also at Zenodo (https://doi.org/10.5281/zenodo.1218010). Semantic CharaParser is available in source code from GitHub (https://github.com/ phenoscape/phenoscape-nlp/) under the MIT license. The version used for this paper is the 0.1.0-goldstandard release (https://github.com/phenoscape/phenoscape-nlp/ releases/tag/v0.1.0-goldstandard), which is also archived at Zenodo (https://doi. org/10.5281/zenodo.1246698).

Xu, D\*\*., Chong S., Rodenhausen, T., & **Cui, H\*\*.** (2018) Resolving “orphaned” parts using machine learning and natural language processing methods. *Biodiversity Data Journal.* https://doi.org/10.3897/BDJ.6.e26659.

Mao, J. and **Cui, H.\*\*** (2018) Identifying bacterial biotope entities using sequence labeling: performance and feature analysis*. Journal of Association for Information Science and Technology*. [**https://doi.org/10.1002/asi.24032**](https://doi.org/10.1002/asi.24032)

Endara, L., Burleigh, J.G., Rodenhausen, T. & **Cui, H**. (in press) Natural Language Processing pipeline, a useful tool for the biology, taxonomy or systematics classroom or laboratory. *CourseSource – Teaching tools and strategies*.

Endara, L., **Cui, H.** & Burleigh, J. G. (in press) A New Approach to Teach Taxonomy and Scientific Research Skills using Natural Language Processing. *CourseSource - Lessons*.

Endara, L., **Cui, H.** & Burleigh, J. G. (2018) Semiautomatic extraction of phenotypic traits from taxonomic descriptions using a Natural Language Processing approach. *Applications in Plant Sciences*. DOI: 10.1002/aps3.1035

Endara, L., Cole, H.A., Burleigh, J.G., Nagalingum, N., Macklin, J.A., Liu, J., & **Cui, H\*\*.** (2017) Building the “Plant Glossary” — A controlled botanical vocabulary using terms extracted from the Floras of North America and China. *TAXON*. *66*(4), 953-966. DOI: [10.12705/664.9](https://doi.org/10.12705/664.9)

Mao, J. Moore, L., Blank, C. Wu, E.H-H, Ackerman, M., Ranade, S., & **Cui, H\*\*.** (2016). Microbial Phenomics Information Extractor (MicroPIE): A natural language processing tool for the automated acquisition of prokaryotic phenotypic characters from text sources. *BMC Bioinformatics*. *17*(1), 528-543. DOI 10.1186/s12859-016-1396-8

**Cui, H.\*\*,** Xu, D., Chong, S.S., Ramirez, M.J., Rodenhausen, T., Macklin, J.A., Ludascher, B., Morris, R.A., Soto, E. M., & Koch, N.M.  (2016). Introducing Explorer of Taxon Concepts with a case study on spider measurement matrix building. *BMC Bioinformatics.* *17*(1),471-492. DOI:19.1186/s12859-016-1352-7.

Blank, C., **Cui, H.,** Moore, L., Ramona, W. (2016). MicrO: an ontology of phenotypic and metabolic characters, assays, and culture media found in prokaryotic taxonomic descriptions. *Journal of Biomedical Semantics*. *7*(1), 1-10, DOI: 10.1186/s13326-016-0060-6

Huang, F, Macklin, J.A**., Cui, H.\*\*,** Cole, H.A., & Endara, L. (2015). OTO: Ontology Term Organizer. *BMC Bioinformatics*. *16*(1),47-64. DOI:10.1186/s12859-015-0488-1

Deans AR, Lewis SE, Huala E, Anzaldo SS, Ashburner M, et al [14th of 74 authors]. (2015). Finding our way through phenotypes. *PLoS Biology* *13*(1): e1002033. DOI:10.1371/journal.pbio.1002033, 9 pages. [perspective paper].

Dahdul, W.M., **Cui, H.,** Mabee, P. et al. (2014). Nose to tail, roots to shoots: spatial descriptors for phenotypic diversity in the Biological Spatial Ontology. *Journal of Biomedical Semantics. 5*(1), 34-46. DOI:10.1186/2041-1480-5-34.

Duan, YF., Hei ZZ., Ju, F., & **Cui, H**.(2013). Heuristics based semantic annotation of biodiversity documents in Chinese. *Chinese Journal of Library and Information Science (English). 6*(2):33-46. http://ir.las.ac.cn/handle/12502/6238?mode=full&submit\_simple=Show+full+item+record

Burleigh, G, et al. [7th  in 28 authors] (2013). Next generation phenomics for the Tree of Life. *PLOS Currents: Tree of Life*. http://currents.plos.org/treeoflife/article/next-generation-phenomics-for-the-tree-of-life/

Arighi, C.N., et al. [23rd of 43 authors] (2013). An overview of the BioCreative 2012 Workshop Track III: interactive text mining task. *Database: The Journal of Biological databases and Curation (Oxford)*. DOI: 10.1093/database/bas056, 18 pages.

Duan, Y, Hei, Z, Ju, F., **Cui, H**. (2012). Semantic annotation of species description text in Chinese literature by Naive Bayes Classifier. *Journal of the China Society for Scientific and Technical Information* (Chinese). *31*(8), 805-812.

Duan, Y, Hei, Z, Ju, F., **Cui, H.** (2012).  Study on semantic markup of species description text in Chinese based on auto-learned rules. *New Technology of Library and Information Services* (Chinese). *5*, 41-47.

Thessen, A., **Cui, H**., & Mozzherin, D. (2012). Applications of natural language processing in biodiversity science. *Advances in Bioinformatics*, *2012*, DOI: 10.1155/2012/391574

**Cui, H**. (2012). CharaParser for fine-grained semantic annotation of organism morphological descriptions. *Journal of the American Society for Information Science and Technology, 63*(4), 738-754.

**Cui, H**., Duan, Y. & Li, F. (2011). Machine learning based semantic markup of biodiversity literature in English. *Document, Information, & Knowledge* *(in Chinese), 2*, 73-77.

**Cui, H**. (2010). Competency evaluation of plant character ontologies against domain literature. *Journal of the American Society for Information Science and Technology, 61*(6), 1144-1165.

**Cui, H.\*\***, Boufford, D., & Selden, P. (2010). Semantic annotation of biosystematics literature without training examples. *Journal of the American Society for Information Science and Technology, 61*(3), 522-542.

**Cui, H**. (2010). Semantic annotation of morphological descriptions: An overall strategy. *BMC Bioinformatics,*11(1): 278-288. DOI:10.1186/1471-2105-11-278.

**Cui, H.** (2008). Converting taxonomic descriptions to new digital formats. *Biodiversity Informatics, 5*, 20-40.

**\*Cui, H.\*\*** & Heidorn, P.B. (2007). The reusability of induced knowledge for the automatic semantic markup of taxonomic descriptions. *Journal of the American Society for Information Science and Technology, 58*(1), 133-149.

**Cui, H.\*\*** & Nickerson, G. (2007). Use Server2Go to teach IT courses for LIS students. *Journal of Association for Library and Information Science Education, 48,* 261-271.

**Cui, H**. (1998). A clustering analysis on citation motivations of Chinese scientists. *Journal of Information Science* *(in Chinese), 17*(2), 68-70.

**Cui, H**. (1998). Analyzing self-citations in Chinese scientists. *Information: Theory and Application (in Chinese), 21*(3), 153-154, 176.

Refereed conference articles

Endara, L., Burleigh, G., Cooper, L., Jaiswal, P., Laporte, M-A., & **Cui, H.** (2018) [A Natural Language Processing Pipeline to Extract Phenotypic Data from Formal Taxonomic Descriptions with a Focus on Flagellate Plants](http://ceur-ws.org/Vol-2285/ICBO_2018_paper_50.pdf). *Proceedings of the 2018 International Conference on Biomedical Ontologies.* http://ceur-ws.org/Vol-2285/ICBO\_2018\_paper\_50.pdf

Zhang, Y. Burkell, J., **Cui, H.,** Mercer, R. (2018). An automated approach for rating the content quality of Web healthcare information: A case study on depression treatment Web pages. *Proceedings of the 2018 International Conference on Health Informatics & Medical Systems*, (eds) Hamid R. Arabnia, Leonidas Deligiannidis, Fernando G. Tinetti, Quoc-Nam Tran, pp 3-8, 2018.

Zhang, Y. Mercer, R., Burkell, J. & **Cui, H.** (2018). Using shallow semantic analysis to implement automated quality assessment of web health care information. *The 19th International Conference on Computational Linguistics and Intelligent Text Processing, CICLing 2018* March 18 to 24, 2018 in Hanoi, Vietnam, Selected for publication in Springer LNCS.

Yadav, V., Sadeque, F.Y., Heidorn, B., & **Cui, H.** (2018). Where are iSchools heading? *iConference 2018*.

Dang, T., **Cui, H., &** Forbes, A.G. (2016). MultiLayerMatrix: Visualizing large taxonomic datasets. In *Proceedings of the EuroVis Workshop on Visual Analytics (EuroVA)*, Groningen, Netherlands, June 2016.

**Cui, H.\*\*,** Dahdul, W., Dececchi, A., Ibrahim, N., Mabee, P., Balhoff, J., Gopalakrishnan, H. (2015). CharaPaser+EQ: Performance evaluation without gold standard. *Annual Meeting of the Association for Information Science and Technology*, Nov 6-10, St Louis, Missouri, 2015. (acceptance rate: 36%) <https://www.asist.org/files/meetings/am15/proceedings/openpage15.html>

Zhang, Y., **Cui, H**., Burkell, & J. Mercer, R.E. (2014) A machine learning approach for rating the quality of depression treatment web pages. *iConference*, 2014. <http://hdl.handle.net/2142/47314>

**Cui, H.**, Balhoff J., Dahdul W., Lapp H., Mabee P., Vision T., & Chang, Z. (2012). PCS for Phylogenetic Systematic Literature Curation. *Proceedings of the BioCreative workshop 2012* (pp.137-144).

**Cui, H.\*\***, Singaram, S., & Janning, A. (2011). Combine unsupervised learning and heuristic rules to annotate morphological characters. *Proceedings of Annual Meeting of American Society of Information Science and Technology* 2011

**Cui, H.\*\***, Sanyal P.P., & Yu C. (2010). Tools for semantic annotation of taxonomic descriptions. In R. Setchi et al. (Eds.): *Proceedings of 14th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems*, *Part IV, Lecture Notes in Artificial Intelligence*, 6279, 506-516.

**Cui, H**. (2010). Linking corpus characteristics to performance of semantic annotation systems for biosystematic descriptions. *Proceedings of the 2nd International Conference on Bioinformatics and Biomedical Technology* (pp. 92-96).

**Cui, H**. (2008). Approaches to semantic mark up for natural heritage literature. *Proceedings of the iConference* 2008. <http://www.ischools.org/oc/conference08/pc/PA5-2_iconf08.doc>

**Cui, H**. (2008). Unsupervised semantic markup of literature for biodiversity digital libraries. *Proceedings of the 8th ACM/IEEE-CS Joint Conference on Digital Libraries* (pp. 25-28). [short paper]

**\*Cui, H**. (2005). MARTT: Using induced knowledge base to automatically mark up plant taxonomic descriptions with XML. *Proceedings of the Annual Meeting of the American Society for Information and Technology*. DOI: 10.1002/meet.1450420170

**\*Cui, H**. (2005). MARTT: A general approach to automatic markup of taxonomic descriptions with XML. *Proceedings of the Annual Conference of Canadian Association for Information Science 2005*. http://www.cais-acsi.ca/proceedings/2005/cui\_2005.pdf

**\*Cui, H**., Heidorn, P.B., & Zhang, H. (2002). An approach to automatic classification for information retrieval. *Proceedings of the Joint Conference on Digital Libraries 2002* (pp. 96-97).

\*Heidorn, P.B. & **Cui, H**. (2000). The interaction of result set display dimensionality and cognitive factors in information retrieval systems. *Proceedings of the Annual Meeting of the American Society for Information Science* (pp. 258-270).

Refereed conference posters, system demos and abstracts

Internet of Samples : Metadata Enhancement for Material Type and Specimen Type, AGU, 2022.

Vieglais, David, Lehnert, Kerstin, Ramdeen, Sarah, Cui, Hong, Mandel, Danny, Gan, Quan, Song, Sarah Hyunju, Davies, Neil, Deck, John, Kansa, Eric, Kansa, Sarah, Kunze, John, Meyer, Christopher, Orrell, Thomas, Richard, Stephen, Snyder, Rebecca, & Walls, Ramona. (2022). iSamples (Internet of Samples): Cyberinfrastructure to support transdisciplinary use of material samples (1.0). *Poster for the US National Science Foundation CSSI PI Meeting, July 2022.* https://doi.org/10.5281/zenodo.6851643

Cui, H., Ford, B., Starr, J., Reznicek, A. , Zhou, Y., Gan, Q. , Léveillé-Bourret, É., Lacroix-Carignan, É., Macklin, J.A. , Cayouette, J. , Catling, P., Levin, G., Saarela, J., Smith, T., Sutherland, D. Sachs, J. (2022). Annual Meeting of Biodiversity Information Standard. Oct, 2022. *Biodiversity Information Science and Standards: Conference Abstract, DOI:TBA*

Vieglais, D., Richard, S.M., Gan, Q., Zhou, Y. Cui, H. et al. (2021) iSamples (Internet of Samples): Cyberinfrastructure to support transdisciplinary use of material samples. AGU (American Geophysical Union) Fall 2021 Meeting. 13-17 December, 2021 <https://drive.google.com/drive/u/0/folders/1ASkMOnIP1ONg87RVrmKiJ6oTBVRxeJ2j>

Cui, H., Ford, B., Starr, J., Macklin, J., Reznicek, A., Giebink, N. Longert, D. Léveillé-Bourret, É., Zhang, L. (2021) Author-Driven Computable Data and Ontology Production for Taxonomists. *Biodiversity Information Science and Standards, 5:e75741. DOI:10.3897/biss.5.75741*

Vieglais, D. Richard, S.M., **Cui**, H. et al. (2021) Internet of Samples: Progress Report. B*iodiversity Information Science and Standards, 5:e75797. DOI:10.3897/biss.5.75797*.

Walls, R L; Anderson, J; Cui, H; Davies, N; Deck, J; Kansa, S W; Meyer, C; Ramdeen, S; Richard, S; Snyder, R; Vieglais, D; Lehnert, K. “iSamples and Sampling Nature: Maximizing the Value of Today's Samples for Tomorrow's Science.” *Astromaterials Data Management in the Era of Sample-Return Missions Community Workshop*, 8-9 November, 2021. Hybrid / Tucson, Arizona. *LPI Contributions*, 2654 (2021): 2024

Richard, S.M., Vieglais, D., **Cui, H.** et al. (2021) Internet of Samples. *The 84th Annual Meeting of Association for Information Science and Technology*. Oct 28-Nov 2, 2021. Virtual Conference.

Giebink, N., **Cui, H.,** Longert, D., Starr, J., Ford, B., & Léveillé-Bourret, É. (2021) A Data Mining Method for Resolving Color Ambiguity Issues. *The 84th Annual Meeting of Association for Information Science and Technology*. Oct 28-Nov 2, 2021. Virtual Conference.

Deimen, S., **Cui, H.,** & Higgins, M. (2021) A Peek into the US Informal STEM Landscape Through Theconnectory.org. *The 84th Annual Meeting of Association for Information Science and Technology*. Oct 28-Nov 2, 2021. Virtual Conference.

Zhang, L. **Cui, H.,** Ford, B., Reznicek, A., Sach, J., Pender, J., Macklin, J., Chen, H-L.(2020) Design and Evaluation of A Next Generation Editor for Scientific Data: Measurement Recorder. *HCI International 2020* 19-24 July 2020 Copenhagen Denmark [Virtual Conference due to COVID-19].

Zhang, L., Cota, Z., **Cui, H**. et al (2019) Developing Community Phenotype Ontologies: Understanding Users’ Preferences. *The 82nd ASIST Annual Meeting*. Oct 19-23, Melbourne, Australia. [poster]

**Cui, H**. & Reznicek, A. (2019) Authors in the driver’s seat: Evaluating phenotypes data authoring tools. *Botany 2019*. July 30, Tucson. [workshop]

Chong, S.S., Xu, D., Rodenhausen, T., **& Cui, H\*** (2018) Resolving orphaned parts in taxonomic descriptions with machine learning and natural language processing methods. *The Second Annual Digital Data in Biodiversity Research Conference,* Jun 4-6, 2018. UC Berkeley. [poster]

Cao, Y., Franz, N., Macklin, J., Mao, J. & **Cui, H**\*\* (2018) Resolving taxonomic names using evidence extracted from text. *iConference 2018*. [poster]

**Cui, H**. (2017) Bottom-up ontology building *IBC XIX,* July, 2017. Shen Zhen, China. [abstract]

Dahdul, W., Manda, P., **Cui, H.,** Balhoff, J. Dececchi, A., Ibrahim, N., Mabee, P., Vision, T. (2017). Gold standard evaluation of machine- and human-generated annotations of biodiverse phenotypes. *Biocuration 2017*. [abstract]

Joseph, C., Stadelmann, K., Endara, L., & **Cui, H.** (2016). The new language of science: A novel approach to generating a phenomic matrix of gymnosperms. *Botany 2016*, Savannah, GA. [poster]

Endara, L., Burleigh, J.B., & **Cui, H.** (2016). Using natural language processing tools to facilitate learning taxonomy, nomenclature, and botany in the classroom. *Botany 2016*. July 30-Aug 3, Savannah, Georgia. 2016. [abstract].

Endara, L., **Cui, H.,** Burleigh, J.B., & Nagalingum, N. (2016). Constructing morphological character matrices from taxonomic descriptions using new software approaches. *Botany 2016*. July 30-Aug 3, Savannah, Georgia. 2016.[abstract and oral presentation]

**Cui, H\*\*.**, Macklin, J.A., Sachs, J., Rodenhausen, T., Chong, S., & Xu, D. (2016) Bottom up, pattern-based ontology building for phenotype characters. *TDWG 2016 Conference*. Dec 3-10, 2016. Costa Rica. [abstract]

Mao, J., Moore, L., Blank, C. & **Cui, H\*\***. (2016). MicroPIE *IConference 2016*. [poster]

Endara, L., Burleigh, G., & **Cui, H.** (2015). Semi-automated extraction of phenomic characters from taxonomic descriptions: natural language processing approaches for the Tree of Life. *SEPEEG 2015*. Eatonton, Georgia, USA [Best Poster Award]

Blank, C. E., Wu, H., **Cui, H.,** Moore, L.R., Burleigh, J.G., Liu, J., & Gasparich GE. (2014). AVAToL microbial phenomics: an ontology and natural language processing tools to facilitate trait evolution stdueis for the archaeal domain of life. *Evolution 2014 meeting,* Raleigh, NC, June 20-24. [abstract]

[Endara, L., Liu, J., Burleigh, J.G., Nagalingum, N., & **Cui, H**. (2014). Transformation of taxonomic literature to a taxon-character matrix for phylogenetics. *Evolution* *2014* *Meeting*.](http://avatol.org/ngp/wp-content/uploads/2013/06/NGPhenomics_Sweden.pptx) [abstract]

Macklin, J. A., Cole, H., **Cui, H**., & Sachs, J. (2014). Prototyping a botanical knowledge portal. Canadian Botanical Association Annual Meeting. Montreal, QC. June 16, 2014. [poster]

Rodenhausen, T., **Cui, H.,**  Huang, F., Ludäscher, B., Macklin,J., Morris, R., Yu, S. (2014). ETC: From description to matrix and beyond in a web-based toolbox. *TWDG 2014 Meeting*. [software demo].

Blank, C.,E., Moore, L.R., **Cui, H.,** Wu, H., Burleigh, G., Liu, J., Slonczewski, J.L., Barich, D., & Gasparich, G.E.(2014). AVAToL microbial phenomics: developing a microbial ontology and natural language processing tools to automate the study of the evolution of microbial traits. *Joint Aquatic Sciences Meeting*, Portland, OR, May 18-23. [poster].

[Moore, L. R., Blank, C., Burleigh, J. G., **Cui, H**, Gasparich, G., Liu, J. & Ranade, S. (2013). Next generation microbial phenomics, Australian Association for Microbiology Annual Scientific Meeting [poster].](http://avatol.org/ngp/wp-content/uploads/2013/06/ASM-Aust-poster-abstract-9May2013.docx)

**Cui, H\*\***., Huang, F., & Rodenhausen, T. (2013). Semantic annotation of organism morphological descriptions using CharaParser along with a web-based ontology term organizer (OTO). *IEvoBio* 2013. [software demo].

Ranade, S., **Cui, H\*\***, Moore, L. et al. (2013). A preliminary analysis of application of Stanford Parser and OSCAR4 for parsing and annotating microbial descriptions. *IEvoBio* 2013. [abstract].

Walls, R., **Cui, H**., Macklin J.A., Mungall, C., Cooper, L., Stevenson, D.W., & Jaiswal, P.(2012). Mapping of glossary terms from the Flora of North America to the Plant Ontology enhances both resources. *Proceedings of the 3rd International Conference on Biomedical Ontology*, June 2012 Austria. [extended abstract]

Huang, F.Q.,Macklin, J., Morris, P., Sanyal, P.P., Morris, R.A. , Cole, H. & **Cui, H\*\*** (2012). OTO: Ontology Term Organizer. *Annual Conference of American Society for Information Science and Technology*. [poster]

**Cui, H.\*\***, Dusenbery, A., Morris, R.A., Macklin, J., & Huang, F (2012). Semantic annotation, ontology building, and interactive key generation from morphological descriptions. *TDWG Annual Meeting 2012*, Beijing, Oct 22-26, 2012. [abstract]

Chang Z., Balhoff J., Dahdul W., Lapp H., Mabee P., Vision T., & **Cui, H\*\***. (2012). Workflow of CharaParser and Phenex: Turning character descriptions to EQ statements. *BioCreative workshop 2012,* Washington, D.C. [poster and software demo]

Janning, A. & **Cui, H\*\***. (2012). Evaluating the botanical coverage of PATO using an unsupervised learning algorithm. *Proceedings of the 2012 iConference* (pp. 505-505). [poster]

Macklin, J., **Cui, H**., Morris, R., & Morris, P. (2011). Floras in the 21st Century: The Flora of North America. Panelist in *Creating Next Generation Floras Symposium, XVIII International Botanical Congress*. [abstract]

**Cui, H**. (2011). Fine-grained semantic markup of descriptive data. Panelist in *Informatics Tools for the Semantic Enhancement of Taxonomic Literature Symposium, XVIII International Botanical Congress* (on USB). [abstract]

**Cui, H**., Jiang, Y., & Sanyal, P.P. (2010). From text to RDF triple store: An application for biodiversity literature. *Proceedings of the Annual Meeting of American Society of Information Science and Technology*. [software demo]

**Cui, H**. (2010). Unsupervised extraction of text segments from heterogeneous document collections. *Proceedings of the Annual Meeting of the American Society for Information Science and Technology* 2010. Oct. 2010. [poster]

**Cui, H.\*\***, & Sanyal, P. P. (2009). "Fine-Grained Semantic Annotation of Descriptive Data for Knowledge Application in Biodiversity". *Taxonomic Database Working Group 2009 Annual Meeting*. Paris, France. [software demo]

**Cui, H**., Yu, C., & Macklin, J. (2009). Application of semantic annotation for quality insurance in biosystematics publishing. *Proceedings of the Annual Meeting of the American Society for Information Science and Technology* (on CD). [poster]

**Cui, H**. (2008). An application for semantic markup of biodiversity documents. *Proceedings of the 8th ACM/IEEE-CS Joint Conference on Digital Libraries* (pp.421). [software demo]

McCourt, R.M., **Cui, H**., Guiry, M. & Feist, M. (2006). Using machine learning environments to extract taxonomic information from text: An example from print and online texts on algae. *Phycological Society of America Annual Meeting* 2006. Juneau, AK. [poster]

Hirokawa, S. & **Cui, H**. (2006). Automatic generation of hierarchy for plant identification terminology. *Proceedings of the 2nd International Digital Curation Conference*. Glasgow, UK. [software demo]

**Cui, H**., McCourt, R. M., & Feist, M. (2006). Unsupervised structure discovery for biodiversity information. *Proceedings of the 6th ACM/IEEE-CS Joint Conference on Digital Libraries* (pp. 382). [software demo]

**Cui, H**., McCourt, R. M., & Feist, M. (2006). Automated concept discovery in corpora of morphological descriptions. *Proceedings of the Annual Meeting of the American Society for Information and Technology* (on CD-ROM).[poster]

**Cui, H**. (2005). A machine learning environment for automatic markup of taxonomic descriptions with XML. *Taxonomic Database Working Group 2005 Annual Meeting* (pp.16). [software demo]

**Cui, H**. (2004). Knowledge-based semantic markup of plant descriptions. *Doctoral Students SIG Research Poster Session, Annual Conference of the Association for Library and Information Science Education 2004*, San Diego, CA. [poster, Jean Tague-Sutcliffe Award]

Heidorn, P.B**., Cui, H**., Yu, B. Wu, J., & Zhang, H. (2002). Taxonomic description creation, search and display in XML. *Botany* 2002. Madison, WI.[abstract]

**Cui, H**. (2002). Automatic/semi-automatic parse of Flora of North America records into XML format using machine-learning techniques. *Doctoral Students SIG Research Poster Session, Annual Conference of the Association for Library and Information Science Education*, New Orleans, LA. [poster]

Other creative products

ETC Toolkit: Five tools are provided for rapidly converting taxonomic descriptions into character matrices for systematics and evolutionary studies. <http://etc.sbs.arizona.edu/etcsite/>

OTO: Ontology Term Organizer: Conflict-exposing and consensus-promoting multi-user controlled vocabulary building web application, treating *is\_a, part\_of*, and *order* relationships critical in biodiversity domain. <http://biosemantics.arizona.edu/OTO/> [currently offline to fix security issues]

Measurement Recorder: Support users to document measurement semantics (i.e., define what a measurable character is with ontology terms). <http://shark.sbs.arizona.edu/mr/individual/public>

Add2Ontology Usability Testing Platform: Made available 4 different ways for novice users to add terms to ontologies. The platform is used to assess tool preferences of the users with different background and training. <http://shark.sbs.arizona.edu/add2ontologymodular/public/leaf/hong/carex>

Description Editor: This ontology-supported application converts narrative organism morphological descriptions to matrix, and check terminology usage in the description. It alerts the user for ambiguous terms and suggests alternatives. <http://shark.sbs.arizona.edu/heditor/#/home>

Character Recorder: An ontology-supported application for taxonomists to record character findings of a set of specimen. On the surface it looks like a spreadsheet, but allow users to select terms from ontologies to document their characters, and to add and define new terms to the ontologies. <http://shark.sbs.arizona.edu/chrecorder/public/login>

*Carex* Ontology: An ontology for Carex built from bottom up (covers all terms extracted from Flora of North American and Flora of China *Carex* treatment) <https://webprotege.stanford.edu/#projects/70ea16bb-ac09-4c3b-8e81-63d6d8ee98d5> [password protected]

Github code and ontology repositories

<https://github.com/biosemantics> [all source code for all NSF-sponsored projects, Plant Glossary, Modifier Ontologies]

<https://github.com/hongcui/>

<https://github.com/phenoscape/phenoscape-nlp>

**Work in Progress**

Cao, Y., **Cui, H\*\***, Mao, J. et al. (in prep). User study of the ETC ontology building tool. *BMC Bioinformatics*

**Conferences/Scholarly Presentations** (limited to period in current rank)

Colloquia

2020 iSchool Faculty Research Blitz

2019 iSchool Faculty Research Blitz

2017 iSchool, University of Arizona. Talk title: Authors in the driver's seat: new

 paradigm for phenotype data and ontology production

2016 iSchool, Wuhan University, China. Talk title: Constructing and using ontologies:

 case studies in biodiversity domain [invited]

2016 School of Management Information Systems, Central China Technology

 University, China. Talk title: Constructing and using ontologies: case studies in

 biodiversity domain [invited]

2015 iSchool, University of Illinois at Urbana-Champaign. Talk title: Developing

 controlled vocabularies for organism traits [invited]

Symposia and Workshops

2021 The 40th Anniversary Symposium of The College of Medicine and Health

 Management, Huazhong Science and Technology University, Wuhan, China.

 [Invited, virtual] Talk title: FAIR Authors

2019 *Semantic Data Models in Anatomy Workshop*. Zoological Research Museum

 Alexander Koenig, Bonn Germany [invited].

2018 *Forthcoming Next Generation Phenomics Tools for the Tree of Life Workshop*.

 University of South Maine [invited].

2016 *Next Generation Phenomics Tools for the Tree of Life Workshop*. University of

 South Maine. Talk title: Explorer of Taxon Concepts web toolkit

 [invited]

2016 *Phenotype Ontology Research Collaboration Network Meeting*. Tucson, AZ. Talk

 title: OTO – Ontology Term Organizer [invited]

2015 *ETC Information Visualization Workshop.* Urbana, Illinois. Talk title: ETC user

 task challenges [organizer]

2015 *Next Generation Phonemics Project Annual Meeting* Oracle, AZ. Talk title: From

 text to matrices: Using Natural Language Processing (NLP) to facilitate

 assembling taxon-character matrices [co-organizer and host]

2014 *Phenotype Ontology Research Collaboration Network Meeting.* Tucson, AZ, Talk

 title: Explorer of Taxon Concepts project and initial steps [invited]

2013 *pro-iBiosphere workshop* I, Leiden, the Netherlands. Talk title: CharaParser and

 associated software [invited]

2013 *pro-iBiosphere workshop* II, Leiden, the Netherlands. Talk title: Parsing

 morphological descriptions to support semantic-based access [invited]

2013 *pro-iBiosphere workshop* III, Leiden, the Netherlands. Talk title: Markup tools:

 CharaParser [invited]

Conferences

2022 The 6th Annual Digital Data in Biodiversity Research Conference, Panelist of

 ‘Data Quality Discussion’. Talk title: Ambiguity in Phenotypic Data. Invited.

2021 TDWG 2021 Virtual: Talk title: Author-Driven Computable [Phenotype] Data

 and Ontology Production for Taxonomists.

2021 [SciDataCon](https://codata.org/call-for-sessions-scidatacon-2021-part-of-international-data-week-2021/) 2021 Virtual: Talk title: Author-Driven Computable [Phenotype]

 Data and Ontology Production

2018 2018 International Conference on Biomedical Ontologies. Eugene, Oregon. Talk

 title: ETC Toolkits

2018 iConference 2018, Sheffield, UK. Talk title: Where are iSchools heading?

2018 *Phenomes 2018,* Tucson AZ. Talk title: From text blobs to computable data:

 challenges in mining phenotypical data from text [invited]

2017 *Evolution 2017*, Portland Oregon. Talk title: Authors in the driver’s seat.

2017 XIX International Botanical Congress, Shenzhen, China. Talk title: Bottom-up

 ontology building

2016 *Botany 2016*, Savannah, GA. Talk title: Using natural language processing tools

 to facilitate learning taxonomy, nomenclature, and botany in the classroom

2016 *Biodiversity Information Standards Annual Meeting*. Costa Rica. Talk title:

 Bottom up, pattern-based ontology building for phenotype characters.

2015 *Annual Meeting of the Association for Information Science and Technology,* St

 Louis, Missouri. Talk title: CharaPaser+EQ: Performance evaluation without

 gold standard

2013 *IEvoBio* 2013, Snowbird Utah. Talk title: A preliminary analysis of application of

 Stanford Parser and OSCAR4 for parsing and annotating microbial descriptions.

**Grants and Contracts (limit to period in current rank)**

2020-2024 $1.08M, UA PI. Collaborative Research: Frameworks: Internet of Samples: Toward an Interdisciplinary Cyberinfrastructure for Material Samples. [PI transferred to iSchool/Cui from Bio5] NSF OAC-2004562

2021 $1.5M. Co-PI, The Dynamic Safety Dashboard: Multi-Factor Predictive Models to Improve Miner Health and Safety Outcomes. Submitted to ALPHA Foundation. PI: Leonard Brown.

2020 $740,000. TraitMiner: Decorating the tree of life with phenotypic traits from the world's taxonomic literature. **Submitted** to NSF IIBR. Declined.

2017-2020 $641,763.00. PI. Project title: Collaborative Research: ABI innovation: Authors in the driver's seat: fast, consistent, computable phenotype data and ontology production. Source: National Science Foundation. Co-PIs: James Macklin and Joe Sachs (Both Canadian researchers, no budget).

2017 $60,000. PI. USM Next Generation Penonmics Project Subcontract. Source: University of South Maine. Effort=100%

2016 $100,000. PI. Subcontract to 1147273 Exploring Taxon Concepts (ETC) through Analyzing Fine-grained Semantic Markup of Descriptive Literature. Source: University of Illinois at Urbana-Champaign.

2016-2019 $53,000. PI. Project title: Collaborative Research: Building a Comprehensive Evolutionary History of Flagellate Plants. Source: National Science Foundation.

2015-2017 $117,000. PI. Special Creativity Extension to "Collaborative Research: AVAToL - Next Generation Phenomics for the Tree of Life”. Source: National Science Foundation.

2014-2017 $7,500. PI. Research Experience for Undergraduate Students (REU) supplement to "Collaborative Research: AVAToL - Next Generation Phenomics for the Tree of Life”. Source National Science Foundation.

2012-2015 $173,000. Senior Personnel. Project title: La SCALA: Latino Scholars Cambio Leadership Academy. Source: Institute for Museum and Library Services

2012-2018 $1,095,946. PI. Project title: BCSP: Collaborative Research: ABI Development: Exploring Taxon Concepts (ETC) through analyzing fine-grained semantic markup of descriptive literature. Source: National Science Foundation.

2012-2015 $335,000. PI. Project title: Collaborative Research: Next Generation Phenomics for the Tree of Life. Source: National Science Foundation.

**List of Collaborators and their Organizational Affiliations**

Collaborators on Grants and Publications

Arighi, Cecilia (University of Delaware)

Ackerman, Marcia (University of South Maine)

Balhoff, Jim (Duke University)

Blank, Carrine (University of Montana)

Burkell, Jacquie (Western University, Canada)

Burleigh, Gordon (University of Florida)

Chong, Steven (National Center for Ecological Analysis and Synthesis)

Cole, Heather (Agriculture Agri-Food Canada)

Dahdul, Wasila (University of South Dakoda)

Daly, Mary Megan (Ohio State University)

Deans, Andrew (Ohio University)

Dietterich, Thomas (Oregon State University)

Duan, Yufeng (East China Normal University)

Endara, Lorena (University of Florida)

Franz, Nico (Arizona State University)

Haendel, Melissa (Oregon Health and Science)

He Zhenzhen (East China Normal University)

Huang, Feiqiong (University of Arizona)

Ibrahim, Nizar (University of Chicago)

Jaiswal, Pankaj (Oregon State University)

Ju, Fei (East China Normal University)

Koch, Nicolás (Yale University)

Lapp, Hilmar (Duke University)

Liu, Jing (Wuhan University, China)

Ludascher, Bertram (University of Illinois at Urbana-Champaign)

Mabee, Puala (University of South Dakoda)

Macklin, James (Agriculture Agri-Food, Canada)

Mao, Jin (Wuhan University, China)

Mercer, Robert (Western University, Canada)

Moore, Lisa (University of South Maine)

Morris, Robert(Retired)

Nagalingum, Nathalie (University of California)

O'Leary, Maureen (Stony Brook University)

Ranade, Sonali (University of Arizona)

Ramirez, Martin (Museo Argentino de Ciencias, Naturales, CONICET, Argentina.)

Rodenhausen, Thomas(Arizona)

Sacks, Joel (Agriculture Agri-Food, Canada)

Simmons, Nancy (American Museum of Natural History)

Soto, Eduardo (Yale University)

Stevenson, Dennis (New York Botanical Garden)

Thacker, Robert (Stony Brook University)

Theriot, Edward (University of Texas)

Thessen, Anne (independent researcher)

Todorovic, Sinisa (Oregon State University)

Vision, Todd(University of North Carolina)

Walls, Ramona (University of Arizona)

Wu, Evis (University of Arizona)

Yu, Shizhuo (University of California at Davis)

Graduate, Postdoctoral, Thesis Advisors or Sponsors

Boufford, E. David (Harvard University),

Doan, Anhai (Illinois at Urbana-Champaign),

Heidorn, P. Bryan (University of Arizona),

Smith, C. Linda (University of Illinois at Urbana-Champaign).