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Postdoctoral Fellow
Center for Artificial Intelligence and Data Science
Department of Computer Science
Kansas State University, Manhattan, KS 66506, USA

Curriculum Vitae

Scientific Education

08.2020–Present	Postdoctoral Fellow Center for Artificial Intelligence and Data Science Department of Computer Science Kansas State University, USA
08.2019–07.2020	Graduate Research Assistant Center for Artificial Intelligence and Data Science Department of Computer Science Kansas State University, USA
05.2019–06.2019	Visiting Researcher Department of Computer Science and Informatics Jönköping University, Sweden
08.2016–07.2019	Graduate Research Assistant and DAGSI Fellow Department of Computer Science and Engineering Wright State University, Ohio, USA
08.2014–07.2016	Study of Computer Science Wright State University, Ohio, USA

Degrees & Awards

07.2020	Ph.D. in <i>Computer Science</i> Kansas State University, USA
07.2017	M.S. in <i>Computer Science & Engineering</i> Outstanding Student in Computer Science (M.S.) <i>nominated</i> Wright State University, Ohio, USA
07.2016	B.S. in <i>Computer Science, magna cum laude</i> Dean's List–Highest Honors Outstanding Student in Computer Science (B.S.) Wright State University, Ohio, USA

Web References

Homepage	http://coganshimizu.com
Google Scholar	https://scholar.google.com/citations?user=PlBF5eQAAAAJ
DBLP	https://dblp.uni-trier.de/pers/hd/s/Shimizu:Cogan

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1 Projects & Funding

1.1 Acquired Funding – Contributions to the Project Proposal

- EAGER: Open Science Data in Semantic Web Research.
National Science Foundation. September 2020 to August 2022.
Role: Co-PI, main proposal author. Funding: \$299,729
- A Modeling Workshop for Data in Agriculture.
Midwest Big Data Hub. November 2020.
Role: PI.
Funding: \$1,000
- Modular Ontology Modeling for Food Supply Chains.
National Institute for Standards and Technology (NIST). September 2019 to May 2021.
Role: Researcher, main proposal author.
Funding: \$199,510
- Knowledge Analytics with Semantic Technologies (KAST).
Dayton Area Graduate Studies Institute, May 2017 to July 2019.
Role: PI.
Funding: \$121,940

1.2 Fellowships and Scholarships

- Graduate Student Council Fellowship
Wright State University, May 2016 to July 2017.
Amount: \$12,000
- NAECON Grant
May 2015 to July 2016.
- Kittyhawk Scholarship
May 2015 to July 2016.
- Ohio College Opportunity Scholarship
May 2015 to July 2016.

1.3 Submitted Proposals

- Modular Ontology Engineering.
National Science Foundation.
CISE/IIS: Core-small.
Role: PI.
Approx. Funding: \$500,000
- A Blackboard Knowledge Graph Architecture for Continuous Communication of Autonomous Agricultural Agents
USDA.
Agriculture and Food Research Initiative (AFRI).
Role: co-PI.
Approx. Funding: \$650,000

1.4 Further Project Involvement

- A1: KnowWhereGraph: Enriching and Linking Cross-Domain Knowledge Graphs using Spatially-Explicit AI Technologies.
National Science Foundation, September 2020 to August 2022.
Role: Postdoctoral Researcher.
- Convergence Accelerator Phase I (RAISE): Spatially-Explicit Models, Methods, and Services for Open Knowledge Networks.
National Science Foundation, September 2019 to May 2020.
Role: Researcher.
- Towards Undifferentiated Cognitive Agents.
Air Force Office of Scientific Research. July 2018 to July 2021.
Role: Researcher.
- Ontology Modeling for the Historic Slave Trade.
The Andrew W. Mellon Foundation. April 2018 to September 2022.
Role: Researcher.

2 Publications

2.1 Journal Articles

1. Pascal Hitzler, Krzysztof Janowicz, Cogan Shimizu, Lu Zhou, and Andrew Eells. Open science data and the semantic web journal. *Semantic Web*, 12(3):401–402, 2021
2. Pascal Hitzler, Krzysztof Janowicz, Ajay Sharda, and Cogan Shimizu. Advancing agriculture through semantic data management. *Semantic Web*, 12(4):543–545, 2021
3. Stefano Borgo, Pascal Hitzler, and Cogan Shimizu. Time is ripe to embrace the scientific approach in applied ontology. *Appl. Ontology*, 15(3):245–249, 2020
4. Cogan Shimizu, Pascal Hitzler, Quinn Hirt, Dean Rehberger, Seila Gonzalez Estrecha, Catherine Foley, Alicia M. Sheill, Walter Hawthorne, Jeff Mixter, Ethan Watrall, Ryan Carty, and Duncan Tarr. The Enslaved Ontology: Peoples of the historic slave trade. *Journal of Web Semantics*, 63:100567, 2020
5. Cogan Shimizu, Pascal Hitzler, and Krzysztof Janowicz. A closer look at the Semantic Web journal's review process. *Semantic Web*, 10(1):1–7, 2019

2.2 Conference Papers

6. Aaron Eberhart, Cogan Shimizu, Sulogna Chowdhury, Md. Kamruzzaman Sarker, and Pascal Hitzler. Expressibility of OWL axioms with patterns. In Ruben Verborgh, Katja Hose, Heiko Paulheim, Pierre-Antoine Champin, Maria Maleshkova, Óscar Corcho, Petar Ristoski, and Mehwish Alam, editors, *The Semantic Web - 18th International Conference, ESWC 2021, Virtual Event, June 6-10, 2021, Proceedings*, volume 12731 of *Lecture Notes in Computer Science*, pages 230–245. Springer, 2021
7. Aaron Eberhart, Monireh Ebrahimi, Lu Zhou, Cogan Shimizu, and Pascal Hitzler. Completion reasoning emulation for the description logic EL+. In Andreas Martin, Knut Hinkelmann, Hans-Georg Fill, AURORA Gerber, Doug Lenat, Reinhard Stolle, and Frank van Harmelen, editors, *Pro-*

- ceedings of the AAAI 2020 Spring Symposium on Combining Machine Learning and Knowledge Engineering in Practice, AAAI-MAKE 2020, Palo Alto, CA, USA, March 23-25, 2020, Volume I*, volume 2600 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020
8. Lu Zhou, Cogan Shimizu, Pascal Hitzler, Alicia M. Sheill, Seila Gonzalez Estrecha, Catherine Foley, Duncan Tarr, and Dean Rehberger. The enslaved dataset: A real-world complex ontology alignment benchmark using wikibase. In Mathieu d'Aquin, Stefan Dietze, Claudia Hauff, Edward Curry, and Philippe Cudré-Mauroux, editors, *CIKM '20: The 29th ACM International Conference on Information and Knowledge Management, Virtual Event, Ireland, October 19-23, 2020*, pages 3197–3204. ACM, 2020
 9. Cogan Shimizu, Karl Hammar, and Pascal Hitzler. Modular graphical ontology engineering evaluated. In Andreas Harth, Sabrina Kirrane, Axel-Cyrille Ngonga Ngomo, Heiko Paulheim, Anisa Rula, Anna Lisa Gentile, Peter Haase, and Michael Cochez, editors, *The Semantic Web – 17th International Conference, ESWC 2020, Heraklion, Crete, Greece, May 31-June 4, 2020, Proceedings*, volume 12123 of *Lecture Notes in Computer Science*, pages 20–35. Springer, 2020¹
 10. Cogan Shimizu, Aaron Eberhart, Nazifa Karima, Quinn Hirt, Adila Krishnathi, and Pascal Hitzler. A method for automatically generating schema diagrams for OWL ontologies. In Boris Vilazón-Terrazas and Yusniel Hidalgo-Delgado, editors, *Knowledge Graphs and Semantic Web - First Iberoamerican Conference, KGSWC 2019, Villa Clara, Cuba, June 23-30, 2019, Proceedings*, volume 1029 of *Communications in Computer and Information Science*, pages 149–161. Springer, 2019
 11. Garrett Goodman, Cogan Shimizu, and Iosif Papadakis Ktistakis. Constrained state-preserved extreme learning machine. In *31st IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2019, Portland, OR, USA, November 4-6, 2019*, pages 752–759. IEEE, 2019
 12. Garrett Goodman, Tanvi Banerjee, William L. Romine, Cogan Shimizu, and Jennifer Hughes. Caregiver assessment using smart gaming technology: A feasibility study. In *2019 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2019, New Orleans, LA, USA, June 23-26, 2019*, pages 1–6. IEEE, 2019
 13. Cogan Shimizu, Quinn Hirt, and Pascal Hitzler. A Protégé plug-in for annotating OWL ontologies with OPLa. In Aldo Gangemi, Anna Lisa Gentile, Andrea Giovanni Nuzzolese, Sebastian Rudolph, Maria Maleshkova, Heiko Paulheim, Jeff Z. Pan, and Mehwish Alam, editors, *The Semantic Web: ESWC 2018 Satellite Events - ESWC 2018 Satellite Events, Heraklion, Crete, Greece, June 3-7, 2018, Revised Selected Papers*, volume 11155 of *Lecture Notes in Computer Science*, pages 23–27. Springer, 2018
 14. Pascal Hitzler and Cogan Shimizu. Modular ontologies as a bridge between human conceptualization and data. In Peter Chapman, Dominik Endres, and Nathalie Pernelle, editors, *Graph-Based Representation and Reasoning - 23rd International Conference on Conceptual Structures, ICCS 2018, Edinburgh, UK, June 20-22, 2018, Proceedings*, volume 10872 of *Lecture Notes in Computer Science*, pages 3–6. Springer, 2018
 15. Cogan Shimizu, Pascal Hitzler, and Matthew Horridge. Rendering OWL in description logic syntax. In Eva Blomqvist, Katja Hose, Heiko Paulheim, Agnieszka Lawrynowicz, Fabio Ciravegna, and Olaf Hartig, editors, *The Semantic Web: ESWC 2017 Satellite Events - ESWC 2017 Satellite Events, Portorož, Slovenia, May 28 - June 1, 2017, Revised Selected Papers*, volume 10577 of *Lecture Notes in Computer Science*, pages 109–113. Springer, 2017

¹This paper was nominated for Best Paper Award.

2.3 Book Contributions

16. Cogan Shimizu, Ryan McGranaghan, Aaron Eberhart, and Adam Kellerman. Towards a modular ontology for space weather research. In Eva Blomqvist, Torsten Hahmann, Karl Hammar, Pascal Hitzler, Rinke Hoekstra, Raghava Mutharaju, María Poveda, Cogan Shimizu, Martin G. Skjæveland, Monika Solanki, Vojtěch Svátek, and Lu Zhou, editors, *Advances in Ontology Design and Patterns*, Studies on the Semantic Web. IOS Press, 2020. In press
17. Cogan Shimizu, Adila Krisnadhi, and Pascal Hitzler. Modular ontology modeling: a tutorial. In Giuseppe Cota, Marilena Daquino, and Gian Luca Pozzato, editors, *Applications and Practices in Ontology Design, Extraction, and Reasoning*, Studies on the Semantic Web. IOS Press, 2020. To Appear
18. Iosif Papadakis Ktistakis, Garrett Goodman, and Cogan Shimizu. *Methods for Optimizing Fuzzy Inference Systems*, pages 97–116. Springer International Publishing, Cham, 2021
19. Cogan Shimizu, Pascal Hitzler. *Ontology-based Data Organization for the Enslaved Project*. Book chapter, 2021. To Appear.
20. Michelle Cheatham, Holly Ferguson, Charles F. Vardeman II, and Cogan Shimizu. A modification to the hazardous situation ODP to support risk assessment and mitigation. In Karl Hammar, Pascal Hitzler, Adila Krisnadhi, Agnieszka Lawrynowicz, Andrea Giovanni Nuzzolese, and Monika Solanki, editors, *Advances in Ontology Design and Patterns [revised and extended versions of the papers presented at the 7th edition of the Workshop on Ontology and Semantic Web Patterns, WOP@ISWC 2016, Kobe, Japan, 18th October 2016]*, volume 32 of *Studies on the Semantic Web*, pages 97–104. IOS Press, 2016

2.4 Theses

21. Cogan Shimizu. *Advances in Modular Ontology Engineering: Methodology and Tools*. PhD thesis, Kansas State University, 2020
22. Cogan Shimizu. Rendering OWL in LaTeX for improved readability: Extensions to the OWLAPI. Master's thesis, Wright State University, 2017

2.5 Edited Books

23. Eva Blomqvist, Torsten Hahmann, Karl Hammar, Pascal Hitzler, Rinke Hoekstra, Raghava Mutharaju, María Poveda, Cogan Shimizu, Martin G. Skjæveland, Monika Solanki, Vojtěch Svátek, and Lu Zhou, editors. *Advances in Pattern-based Ontology Engineering*. Studies on the Semantic Web. IOS Press, 2021. In preparation

2.6 Journal Edited Issues

24. Extended FOIS 2018 papers. S. Borgo, P. Hitzler, C. Shimizu (Eds.). *Applied Ontology* 15 (3), 2020.

2.7 Edited Workshop Proceedings

25. Cogan Shimizu, Rafael Goncalves, Juan Sequeda, Ruben Verborgh editors. *Proceedings of the 1st Workshop on the Semantic Web in Practice: Tools and Pedagogy (PRAXIS 2020)*

co-located with 19th International Semantic Web Conference (ISWC 2019), Athens, Greece, November 1, 2020. In preparation.

26. Pascal Hitzler, Cogan Shimizu, Torsten Hahmann, Raghava Mutharaju, Monika Solanki, Lu Zhou, editors. *Proceedings of the 11th Workshop on Ontology Design and Patterns (WOP 2020) co-located with 19th International Semantic Web Conference (ISWC 2019), Athens, Greece, November 2, 2020. In preparation.*
27. Krzysztof Janowicz, Adila Alfa Krisnadhi, María Poveda-Villalón, Karl Hammar, and Cogan Shimizu, editors. *Proceedings of the 10th Workshop on Ontology Design and Patterns (WOP 2019) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 27, 2019, volume 2459 of CEUR Workshop Proceedings. CEUR-WS.org, 2019*

2.8 Workshop Contributions

28. Cogan Shimizu, Rui Zhu, Mark Schilhauer, Krzysztof Janowicz, and Pascal Hitzler. A pattern for modeling causal relations between events. In *12th Workshop on Ontology Design and Patterns (WOP 2021) co-located with 20th International Semantic Web Conference (ISWC 2021), virtual, 2021, 2021. To Appear*
29. Andrew Eells, Lu Zhou, Cogan Shimizu, and Pascal Hitzler. Aligning patterns to the wikibase model. In *12th Workshop on Ontology Design and Patterns (WOP 2021) co-located with 20th International Semantic Web Conference (ISWC 2021), virtual, 2021, 2021. To Appear*
30. Cogan Shimizu, Quinn Hirt, and Pascal Hitzler. MODL: A modular ontology design library. In Krzysztof Janowicz, Adila Alfa Krisnadhi, María Poveda Villalón, Karl Hammar, and Cogan Shimizu, editors, *Proceedings of the 10th Workshop on Ontology Design and Patterns (WOP 2019) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 27, 2019, volume 2459 of CEUR Workshop Proceedings, pages 47–58. CEUR-WS.org, 2019*
31. Quinn Hirt, Cogan Shimizu, and Pascal Hitzler. Extensions to the ontology design pattern representation language. In Krzysztof Janowicz, Adila Alfa Krisnadhi, María Poveda Villalón, Karl Hammar, and Cogan Shimizu, editors, *Proceedings of the 10th Workshop on Ontology Design and Patterns (WOP 2019) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 27, 2019, volume 2459 of CEUR Workshop Proceedings, pages 76–75. CEUR-WS.org, 2019*
32. Cogan Shimizu, Pascal Hitzler, and Clare Paul. Ontology design patterns for Winston's taxonomy of part-whole relations. In Elena Demidova, Amrapali Zaveri, and Elena Simperl, editors, *Emerging Topics in Semantic Technologies – ISWC 2018 Satellite Events [best papers from 13 of the workshops co-located with the ISWC 2018 conference], volume 36 of Studies on the Semantic Web, pages 119–129. IOS Press, 2018²*
33. Cogan Shimizu, Leah McEwen, and Quinn Hirt. Towards a pattern-based ontology for chemical laboratory procedures. In Martin G. Skjæveland, Yingjie Hu, Karl Hammar, Vojtech Svátek, and Agnieszka Lawrynowicz, editors, *Proceedings of the 9th Workshop on Ontology Design and Patterns (WOP 2018) co-located with 17th International Semantic Web Conference (ISWC 2018), Monterey, USA, October 9th, 2018, volume 2195 of CEUR Workshop Proceedings, pages 40–51. CEUR-WS.org, 2018*
34. Cogan Shimizu and Michelle Cheatham. An ontology design pattern for microblog entries. In Eva Blomqvist, Óscar Corcho, Matthew Horridge, David Carral, and Rinke Hoekstra, editors,

²This paper won the workshop's Best Pattern Paper Award.

Proceedings of the 8th Workshop on Ontology Design and Patterns (WOP 2017) co-located with the 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 21, 2017, volume 2043 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2017

35. Michelle Cheatham, Holly Ferguson, Charles F. Vardeman II, and Cogan Shimizu. A modification to the hazardous situation ODP to support risk assessment and mitigation. In Karl Hammar, Pascal Hitzler, Adila Krisnadhi, Agnieszka Lawrynowicz, Andrea Giovanni Nuzzolese, and Monika Solanki, editors, *Advances in Ontology Design and Patterns [revised and extended versions of the papers presented at the 7th edition of the Workshop on Ontology and Semantic Web Patterns, WOP@ISWC 2016, Kobe, Japan, 18th October 2016]*, volume 32 of *Studies on the Semantic Web*, pages 97–104. IOS Press, 2016

2.9 Posters & Software Demonstrations

36. Cogan Shimizu and Pascal Hitzler. Automatically generating human readable documentation for ontology design patterns. In *Proceedings of the ISWC 2021 Demos and Industry Tracks: From Novel Ideas to Industrial Practice co-located with 20th International Semantic Web Conference (ISWC 2021), Globally online, 2021, 2021*. To Appear
37. Joseph Zalewski, Lu Zhou, Cogan Shimizu, and Pascal Hitzler. Ink browser – the interactive knowledge browser. In *Proceedings of the ISWC 2021 Demos and Industry Tracks: From Novel Ideas to Industrial Practice co-located with 20th International Semantic Web Conference (ISWC 2021), Globally online, 2021, 2021*. To Appear
38. Abhilekha Dalal, Cogan Shimizu, and Pascal Hitzler. Modular ontology modeling meets upper ontologies: The upper ontology alignment tool. In Kerry L. Taylor, Rafael S. Gonçalves, Freddy Lécué, and Jun Yan, editors, *Proceedings of the ISWC 2020 Demos and Industry Tracks: From Novel Ideas to Industrial Practice co-located with 19th International Semantic Web Conference (ISWC 2020), Globally online, November 1-6, 2020 (UTC)*, volume 2721 of *CEUR Workshop Proceedings*, pages 119–124. CEUR-WS.org, 2020
39. Cogan Shimizu and Karl Hammar. CoModIDE – the Comprehensive Modular Ontology Engineering IDE. In Mari Carmen Suárez-Figueroa, Gong Cheng, Anna Lisa Gentile, Christophe Guéret, C. Maria Keet, and Abraham Bernstein, editors, *Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019*, volume 2456 of *CEUR Workshop Proceedings*, pages 249–252. CEUR-WS.org, 2019
40. Cogan Shimizu, Quinn Hirt, and Pascal Hitzler. A Protégé plug-in for annotating OWL ontologies with OPLa. In Aldo Gangemi, Anna Lisa Gentile, Andrea Giovanni Nuzzolese, Sebastian Rudolph, Maria Maleshkova, Heiko Paulheim, Jeff Z. Pan, and Mehwish Alam, editors, *The Semantic Web: ESWC 2018 Satellite Events - ESWC 2018 Satellite Events, Heraklion, Crete, Greece, June 3-7, 2018, Revised Selected Papers*, volume 11155 of *Lecture Notes in Computer Science*, pages 23–27. Springer, 2018
41. Cogan Shimizu, Pascal Hitzler, and Matthew Horridge. Rendering OWL in description logic syntax. In Eva Blomqvist, Katja Hose, Heiko Paulheim, Agnieszka Lawrynowicz, Fabio Ciravegna, and Olaf Hartig, editors, *The Semantic Web: ESWC 2017 Satellite Events - ESWC 2017 Satellite Events, Portorož, Slovenia, May 28 - June 1, 2017, Revised Selected Papers*, volume 10577 of *Lecture Notes in Computer Science*, pages 109–113. Springer, 2017

2.10 Technical Reports

42. Cogan Shimizu, Ryan McGranaghan, Aaron Eberhart, and Adam C. Kellerman. Towards a

modular ontology for space weather research. *CoRR*, abs/2009.12285, 2020

43. Cogan Shimizu, Pascal Hitzler, Quinn Hirt, Alicia Sheill, Seila Gonzalez, Catherine Foley, Dean Rehberger, Ethan Watrall, Walter Hawthorne, Duncan Tarr, Ryan Carty, and Jeff Mixer. The Enslaved Ontology 1.0: People of the historic slave trade. Available from <https://daselab.cs.ksu.edu/projects/ontology-modeling-slave-trade>, 2019. Short version under review for the *Journal of Web Semantics*
44. Garrett Goodman, Abby Edwards, Cogan Shimizu, Tanvi Banerjee, Jennifer Hughes, William L. Romine, and Larry Lawhorne. Caregiver assessment using smart gaming technology: A preliminary approach. *CoRR*, abs/1802.03051, 2018

3 Teaching & Mentoring

3.1 Teaching

3.1.1 Department of Computer Science, Kansas State University

- *Knowledge Representation for the Semantic Web*. Fall 2021. Co-Instructor.
- *Knowledge Representation for the Semantic Web*. Fall 2020. Co-Instructor.
- *Knowledge Representation for the Semantic Web*. Fall 2019. Co-Instructor.

3.1.2 Department of Computer Science and Engineering, Wright State University

- *Data Structures*. CEG 3100. Summer 2018. Instructor.
- *Discrete Structures and their Algorithms*. CS 2200. Fall 2017. Instructor.
- *Logic for Computer Scientists*. CS 2210. Fall 2015. Teaching Assistant.
- *Discrete Structures and their Algorithms*. CS 2200. Fall 2015, Spring 2016. Teaching Assistant.
- *Introduction to Computer Science II*. CS 1181. Spring 2016, Summer 2016. Lab Instructor, Teaching Assistant.
- *Introduction to Computer Science I*. CS 1180. Spring 2016, Summer 2016. Lab Instructor, Teaching Assistant.
- *General Physics II* PHYS 2480. Spring 2015. Teaching Assistant.

3.2 Committee Participation at Wright State University

- College of Engineering and Computer Science, Undergraduate Curriculum Committee. Spring 2016 to Fall 2017 (Student Representative).

- College of Engineering and Computer Science, Graduate Curriculum Committee. Spring 2018 to Summer 2019 (Graduate Student Representative).

3.3 Graduate Student Mentoring

3.3.1 Department of Computer Science, Kansas State University

- Joseph Zalewski, since January 2021.
- Abhilekha Dala, since August 2019.
- Sulogna Chowdhury, since January 2020.

3.3.2 Department of Computer Science and Engineering, Wright State University

- Sri Jitendra Satpathy, from January 2020 to July 2020.
Master's Thesis, *Rules with Right Hand Existential or Disjunction with ROWLTab*
- Rama Someswar Chittella, from May 2018 to July 2019.
Master's Thesis, *Leveraging Schema Information for Improved Knowledge Graph Navigation*

3.4 Undergraduate Supervision

3.4.1 Department of Computer Science, Kansas State University

- Andrew Eells, since January 2020.
- Laura Legg, from January 2021 to May 2021.
- Riley Mueller, from January 2020 to July 2020.

3.4.2 Department of Computer Science and Engineering, Wright State University

- Quinn Hirt, from January 2018 to July 2020.
- Corbin McGuire, from May 2017 to June 2018.

4 Research Community Activities

4.1 Conference Organizing Committee

- K-CAP 2021, 11th International Conference on Knowledge Capture, *Treasurer & Sponsorship Chair*.
- ESWC 2021, 18th ESWC, *Web & Publicity Chair*.

4.2 Conference Area/Track Chair

- ESWC 2021, 18th ESWC 2021, co-Chair for Ontologies & Reasoning Track.

4.3 Conference Program Committees

- FOIS 2021, 12th International Conference on Formal Ontology in Information Systems, Bolzano, Italy, 2021.
- CIKM 2021, 30th ACM International Conference on Information and Knowledge Management, virtual, 2021.
- KGSWC 2021, 3rd Indo-IberoAmerican Knowledge Graph and Semantic Web Conference, Kingsville, Texas, USA, 2021.
- KEOD 2021, 13th International Conference on Knowledge Engineering and Ontology Development, virtual, 2021.
- ISIC 2021, 1st International Semantic Intelligence Conference, New Delhi, India, 2021.
- FOIS 2020, 11th International Conference on Formal Ontology in Information Systems, Bolzano, Italy, 2020. (Technical Track)
- ISWC 2020, 19th International Semantic Web Conference, Athens, Greece, 2020. (Research Track)
- ISWC 2020, 19th International Semantic Web Conference, Athens, Greece, 2020. (Posters & Demos Track)
- ISWC 2020, 19th International Semantic Web Conference, Athens, Greece, 2020. (Resource Track)
- K-CAP 2019, 10th International Conference on Knowledge Capture, Marina del Rey, California, USA, 2019.
- K-CAP 2017, 9th International Conference on Knowledge Capture, Austin, Texas, USA, 2017.

4.4 Workshop Organizing Committee

- 12th Workshop on Ontology Design and Patterns, WOP 2021, at ISWC 2021, virtual, October 2021 (Paper co-Chair).
- 1st Workshop on the Semantic Web in Practice: Tools and Pedagogy, PRAXIS 2020, at ISWC 2020, Athens, Greece, November 2020 (general chair).
- 11th Workshop on Ontology Design and Patterns, WOP 2020, at ISWC 2020, Athens, Greece, November 2020 (Paper co-Chair).
- 10th Workshop on Ontology Design and Patterns, WOP 2019, at ISWC 2019, Auckland, New Zealand, October 2019 (Patterns co-Chair).

4.5 Workshops Program Committees

- GEOKG 2021, The 1st International Workshop on Methods, Models, and Resources for Geospatial Knowledge Graphs and GeoAI co-located with GIScience 2020, virtual.
- DECOR 2021, Data Engineering meets Intelligent Food and Cooking Recipes 2021, virtual.
- GEOKG 2020, The 1st International Workshop on Methods, Models, and Resources for Geospatial Knowledge Graphs and GeoAI co-located with GIScience 2020, virtual.

- DECOR 2020, Data Engineering meets Intelligent Food and Cooking Recipes 2020, virtual.
- TERECON 2018, 2nd Workshop on Technologies for Regulatory Compliance, at JURIX 2018, Groningen, Netherlands, December 2018.
- WOP 2018, 9th Workshop on Ontology Design and Patterns, at ISWC 2018, Monterey, California, USA, October 2018.
- WOP 2017, 8th Workshop on Ontology Design and Patterns, at ISWC 2017, Vienna, Austria, October 2017.
- WOP 2016, 7th Workshop on Ontology and Semantic Web Patterns, at ISWC 2016, Kobe, Japan, October 2016.

4.6 Community Service

- Managing Committee Vice-Chair, Association for Ontology Design and Patterns, since September 2020.
- Editorial Assistant, Semantic Web journal. since August 2017.

4.7 Reviewing

Reviewing of Project Proposals

- Ad hoc Reviewer for NSF Earthcube – USA, 2021.
- Reviewer for the Agence Nationale de la Recherche (ANR) – France, 2021.

Reviewing for Conferences and Workshops (not as PC member)

- WWW 2021, 30. The Web Conference, virtual, 2021.
- ISWC 2019, 18th International Conference on the Semantic Web, Auckland, New Zealand, 2019.
- KGSWC 2019, 1st Iberoamerican Knowledge Graph and Semantic Web Conference, Villa Clara, Cuba, 2019.
- ESWC 2018, 15th ESWC, Heraklion, Greece, 2018.
- EKAW 2018, 21st International Conference on Knowledge Engineering and Knowledge Management, Nancy, France, 2018.
- ISWC 2017, 16th International Conference on the Semantic Web, Vienna, Austria, 2017.
- EKAW 2016, 20th International Conference on Knowledge Engineering and Knowledge Management, Bolonga, Italy, 2016.

Reviewing of Book Proposals and Manuscripts

- Book proposals for CRC Press/Chapman & Hall.

5 Presentations

5.1 Invited Talks

1. Cogan Shimizu, Praxis of MOMo. Center of HelioAnalytics, online, August 2021.
2. Cogan Shimizu, Modular Ontology Engineering. Post-Pandemic Computational Sciences: Challenges and Opportunities, VIT Bhopal University, online, June 2020.
3. Cogan Shimizu, Modular Ontology Engineering. CS 520: Knowledge Graphs, Stanford University, online, April 2020.
4. Cogan Shimizu, Modular Ontology Engineering. Laboratory for Knowledge Discovery in Databases, Manhattan, Kansas, USA, April 2020.
5. Cogan Shimizu, CoModIDE. US2TS 2020, 3rd United States Semantic Technologies Symposium, Raleigh, North Carolina, USA, March, 2020.

5.2 Tutorials & Seminars (through regular proposal process)

6. Cogan Shimizu and Karl Hammar, Modular Ontology Engineering with CoModIDE. Tutorial at ESWC 2021, Virtual, June 2021.
7. Cogan Shimizu and Karl Hammar, Modular Ontology Engineering with CoModIDE. Tutorial at ESWC 2020, Heraklion, Greece, June 2020.
8. Cogan Shimizu and Evan Wallace, Identifying Best Practices in Multi-paradigm Ontology Family Development. 3rd United States Semantic Technologies Symposium (US2TS).
9. Cogan Shimizu, Gary Berg-Cross, Charles F. Vardemann II, Leah McEwen, Hande Küçük-McGinty, Identifying Cross Domain Ontology Design Patterns. 2nd United States Semantic Technologies Symposium (US2TS).
10. K. Hammar, P. Hitzler, Md K. Sarker, C. Shimizu, Methods and Tools for Modular Ontology Modeling. Tutorial at the 17th International Semantic Web Conference, ISWC 2018, Monterey, CA, USA, October 2018.