



- [2] Jaimie Murdock, Colin Allen, Katy Börner, Robert Light, Simon McAlister, Robert Rose, Doori Rose, Jun Otsuka, David Bourget, John Lawrence, Andrew Ravenscroft, and Chris Reed. “Multi-level Computational Methods for Interdisciplinary Research in the Hathitrust Digital Library”. *PLOS ONE* 12.9 (2017), e0184188. DOI: 10.1371/journal.pone.0184188. arXiv: 1702.01090.
- [3] Jaimie Murdock, Colin Allen, and Simon DeDeo. “Exploration and Exploitation of Victorian Science in Darwin’s Reading Notebooks”. *Cognition* 159 (2017), pp. 117–126. DOI: 10.1016/j.cognition.2016.11.012. arXiv: 1509.07175.
- [4] Jared Lorince, Sam Zorowitz, Jaimie Murdock, and Peter Todd. “Wisdom of the Few? “Supertaggers” in Collaborative Tagging Systems”. *Journal of Web Science* 1.1 (2015). DOI: 10.1561/106.00000002. arXiv: 1502.02777.

## Book Chapters

- [6] Jaimie Murdock, Cameron Buckner, and Colin Allen. “Evaluating Dynamic Ontologies”. In: *Knowledge Discovery, Knowledge Engineering, and Knowledge Management: Second International Joint Conference, IC3K 2010, Valencia, Spain, October 25-28, 2010, Revised Selected Papers*. Ed. by Ana Fred, Jan L. G. Dietz, Kecheng Liu, and Joaquim Filipe. Vol. 272. Communications in Computer and Information Science. Springer-Verlag, 2013, pp. 258–275. DOI: 10.1007/978-3-642-29764-9\_18.
- [7] Colin Allen and Jaimie Murdock. “LDA Topic Modeling: Contexts for the History & Philosophy of Science”. In: *The Dynamics of Science: Computational Frontiers in History and Philosophy of Science*. Ed. by Grant Ramsay and Andreas De Block. Preprint: <http://philsci-archive.pitt.edu/17261/>. University of Pittsburgh Press, accepted.

## Conference Papers

- [8] Jaimie Murdock, Colin Allen, and Simon DeDeo. “Quantitative and Qualitative Approaches to the Development of Darwin’s Origin of Species”. *Current Research in Digital History* 1 (2018). DOI: 10.31835/crdh.2018.14. arXiv: 1802.09944.
- [9] Jaimie Murdock, Jacob Jett, Tim Cole, Yu Ma, J. Stephen Downie, and Beth Plale. “Towards Publishing Secure Capsule-Based Analysis”. *2017 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*. Toronto, Ontario, Canada, June 2017. DOI: 10.1109/JCDL.2017.7991585.
- [10] Jared Lorince, Sam Zorowitz, Jaimie Murdock, and Peter Todd. ““Supertagger” behavior in building folksonomies”. *WebSci ’14: Proceedings of the 2014 ACM Conference on Web Science*. Bloomington, Indiana, USA, June 2014, pp. 129–138. DOI: 10.1145/2615569.2615686.
- [11] Jaimie Murdock, Cameron Buckner, and Colin Allen. “Containing the Semantic Explosion”. *Proceedings of the WWW2012 conference workshop PhiloWeb 2012: “Web and Philosophy, Why and What For?”* Ed. by Alexandre Monnin, Harry Halpin, and Leslie Carr. Vol. 859. CEUR Workshop Proceedings. Apr. 2012.
- [12] Jaimie Murdock and Colin Allen. “InPhO for All: Why APIs Matter”. *Journal of the Chicago Colloquium on Digital Humanities and Computer Science* 1.3 (Nov. 2011).

- [13] Jaimie Murdock and Larry S. Yaeger. “Identifying Species by Genetic Clustering”. *Advances in Artificial Life: 20th Anniversary Edition - Back to the Origins of Alife, ECAL 2011*. Paris, France: MIT Press, Aug. 2011, pp. 564–572.
- [14] Jaimie Murdock, Cameron Buckner, and Colin Allen. “Two Methods for Evaluating Dynamic Ontologies”. *Proceedings of the 2nd International Conference on Knowledge Engineering and Ontology Development (KEOD)*. Ed. by Ana Fred and Joaquim Filipe. Vol. 272. Revised and expanded in [6]. Valencia, Spain: Springer-Verlag, Oct. 2010, pp. 110–122. DOI: 10.5220/0003101601100122.

## Conference Abstracts

- [15] James Pustejovsky, Marc Verhagen, Keongmin Rim, Yu Ma, Liang Ran, Samitha Liyanage, Jaimie Murdock, Robert H. McDonald, and Beth Plale. “Enhancing Access to Digital Media: The Language Application Grid in the HTRC Data Capsule”. *PEARC '17: Proceedings of the Practice and Experience in Advanced Research Computing 2017 on Sustainability, Success and Impact*. Poster. New Orleans, Louisiana, USA, July 2017, 60:1–60:3. DOI: 10.1145/3093338.3104171.
- [16] Jaimie Murdock and Colin Allen. “Visualization Techniques for Topic Model Checking”. *AAAI-15: Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence*. Demo of <https://hypershelf.org>. Austin, Texas, USA, Jan. 2015, pp. 4284–4285.
- [17] Jaimie Murdock, Jiaan Zeng, and Robert H. McDonald. “Topic Exploration with the HTRC Data Capsule for Non-Consumptive Research”. *JCDL '15: Proceedings of the 15th ACM/IEEE-CS Joint Conference on Digital Libraries*. Tutorial. Knoxville, Tennessee, USA, June 2015, p. 295. DOI: 10.1145/2756406.2756929.
- [18] Timo Sztyler, Jakob Huber, Jan Noessner, Jaimie Murdock, Colin Allen, and Mathias Niepert. “LODE: Linking Digital Humanities Content to the Web of Data”. *JCDL '14: Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries*. Demo. London, United Kingdom, Sept. 2014, pp. 423–424.
- [19] Jaimie Murdock, Robert Light, Colin Allen, and Katy Börner. “Mapping the Intersection of Science and Philosophy”. *JCDL '13, Proceedings of the 13th ACM/IEEE-CS Joint Conference on Digital Libraries*. Poster. Indianapolis, Indiana, USA, July 2013, pp. 405–406. DOI: 10.1145/2467696.2467777.
- [20] Jaimie Murdock and Larry S. Yaeger. “Genetic Clustering for the Identification of Species”. *GECCO '11. Proceedings of the 13th Annual Conference Companion on Genetic and Evolutionary Computation*. Poster. Expanded in [13]. Dublin, Ireland, July 2011, pp. 29–30. DOI: 10.1145/2001858.2001875.
- [21] Mathias Niepert, Cameron Buckner, Jaimie Murdock, and Colin Allen. “InPhO: A System for Collaboratively Populating and Extending a Dynamic Ontology”. *JCDL '08: Proceedings of the 8th ACM/IEEE-CS Joint Conference on Digital Libraries*. Poster. Pittsburgh, Pennsylvania, USA, June 2008, p. 429. DOI: 10.1145/1378889.1378976.

## Miscellaneous

- [22] Jaimie Murdock. “Topic Modeling the Reading and Writing Behavior of Information Foragers”. Chapters 4 and 5 published as [3, 8]. PhD thesis. Indiana University, June 2019. arXiv: 1907.00488.
- [23] Jaimie Murdock, Jiaan Zeng, and Colin Allen. *Towards Evaluation of Cultural-scale Claims in Light of Topic Model Sampling Effects*. Advanced Collaborative Support Technical Report. HathiTrust Research Center, June 2016. arXiv: 1512.05004.
- [24] Jakob Huber, Timo Sztyler, Jan Noessner, Jaimie Murdock, Colin Allen, and Mathias Niepert. *LODE: Linking Digital Humanities Content to the Web of Data*. Expanded pre-print of abstract published in [18]. 2014. arXiv: 1406.0216.
- [25] Colin Allen, Jaimie Murdock, Cameron Buckner, and Robert Rose. “Computational Philosophy and the Examined Text: A Tale of Two Encyclopedias”. *American Philosophical Association Newsletter on Philosophy and Computers* 12.2 (2013), pp. 28–30.
- [26] Colin Allen and the InPhO Group. “Cross-Cutting Categorization Schemes in the Digital Humanities”. *Isis* 104.3 (2013), pp. 573–583. DOI: 10.1086/673276.

## TEACHING

### Indiana University, Bloomington, IN

#### *Foundations in Science and Mathematics*

Introduction to Computer Science	June 2016
Introduction to Computer Science	June 2015

#### *Department of History and Philosophy of Science and Medicine*

HPSC-X420/X521 Computational Methods for HPS	January - May 2016
--	--------------------

#### *Cognitive Science Program*

COGS-Q260 Programming for the Cognitive and Info. Sciences	January - March 2016
COGS-Q320 Computation in the Cognitive and Info. Sciences	March - May 2016
COGS-Q260 Programming for the Cognitive and Info. Sciences	January - March 2015
COGS-Q320 Computation in the Cognitive and Info. Sciences	March - May 2015

#### *School of Informatics, Computing, and Engineering*

INFO-I399 Research Methods	August - December 2013
CSCI-Y390 Independent Study	January - May 2013
CSCI-C343 Data Structures	August - December 2012
CSCI-C343 Data Structures	August - December 2010

## PRESENTATIONS

<i>Current Research in Digital History 2018</i>	March 17, 2018
The Development of Darwin’s Origin of Species	

<i>Joint Conference on Digital Libraries 2017</i> Towards Publishing Secure Capsule-based Analysis	June 20, 2017
<i>HTRC User Group Meeting</i> HTRC Data Capsule - faster, bigger, better	March 2, 2017
<i>Philosophy of Science Association 2016 Meeting</i> Darwin's Semantic Voyage	November 4, 2016
<i>Guest lecture in ILS-Z657 Digital Humanities</i> From Texts to InPhO (and back!)	November 3, 2016
<i>International Conference on Thinking 2016</i> The Cognitive Science of Darwin's Delay	August 4, 2016
<i>HASTAC 2016 Workshop</i> From Texts to InPhO (and back!)	May 13, 2016
<i>HASTAC 2016</i> Darwin's Semantic Voyage	May 12, 2016
<i>Maryland Insitute for Technology in the Humanities (MITH) Staff Talk</i> Darwin's Semantic Voyage	April 19, 2016
<i>IU CCCP Lab Meeting</i> From Texts to InPhO (and back!)	April 13, 2016
<i>IU Intelligent and Interactive Systems Seminar</i> Darwin's Semantic Voyage	March 23, 2016
<i>Pestilli Research Laboratory</i> Topic Modeling: A Practical Introduction	March 4, 2016
<i>IU Speech and Hearing Science Graduate Seminar</i> Visualizing Scientific Data	February 26, 2016
<i>Guest Lecture in HPSC-X521 Digital Methods for HPS</i> Topic Modeling: A Practical Introduction	February 18, 2016
<i>IU CCCP Lab Meeting</i> Topic Modeling: A Practical Introduction	February 10, 2016
<i>HathiTrust Research Center User Group</i> Charles Darwin, Information Foraging, and Non-consumptive Research	November 11, 2015
<i>Student Organization for Cognitive Science</i> Darwin's Semantic Voyage	October 27, 2015
<i>CLingDing: IU Computational Linguistics Discussion Group</i> Darwin's Semantic Voyage	October 23, 2015
<i>2015 Conference on Complex Systems (CCS'15)</i> Darwin's Semantic Voyage	October 2, 2015
<i>Guest Lecture in STAT-S675 Statistical Learning</i> Exploration and Exploitation of Darwin's Reading Notebooks	September 11, 2015
<i>International Center for Jefferson Studies Fellows' Forum</i> Polymathic and Polygraphic: Thomas Jefferson's Mind	June 4, 2015
<i>Interactive Cognitive Systems Open House</i> Visualization Techniques for LDA	April 17, 2015

<i>Goldstone, Landy, Todd Lab</i> Topic-Driven Foraging	April 10, 2015
<i>IU SoIC Informatics PhD Un-poster Session</i> Darwin's Semantic Voyage	April 8, 2015
<i>APA Pacific Division Invited Symposia</i> Comparing Topic Models of Digital Philosophy Resources	April 4, 2015
<i>HathiTrust Research Center Uncamp</i> Topic Modeling with the HTRC Data Capsule	March 30, 2015
<i>Network Science Talks @ IU</i> Topics Over Time: Into Darwin's Mind	March 9, 2015
<i>IU Cognitive Computing Lab</i> Making Pretty Pictures w/Topic Models	November 5, 2014
<i>HathiTrust Research Center Uncamp</i> InPhO and HathiTrust: Digging for Philosophy in the Sciences	September 9, 2013
<i>International Association for Computing and Philosophy Annual Meeting</i> Simulating Expertise through Subcorpus Modeling	July 17, 2013
<i>Berkeley Institute of Design Lunch Series</i> A Tale of Two Encyclopedias	August 7, 2012
<i>WWW2012 Philoweb Workshop</i> Containing the Semantic Explosion	April 17, 2012
<i>IU Computer Science Club Tech Talk</i> Practical Parallelism	November 17, 2011
<i>IU Student Organization for Cognitive Science</i> Categorization	November 15, 2011
<i>Int. Conf. on Knowledge Engineering and Ontology Development</i> Two Methods for Evaluating Dynamic Ontologies	October 26, 2010

### AWARDS

Fellow, International Center for Jefferson Studies (ICJS)	May 2015
Provost's Award for Undergraduate Research and Creative Activity	April 2010
Cognitive Science Program Outstanding Contribution Award	April 2009
Hutton Honors College Arthur Metz Scholar	April 2007

### CONSULTING

University of Pittsburgh The Internet Philosophy Ontology Project	January 2019 - Present <a href="https://inphoproject.org">https://inphoproject.org</a>
University of Victoria Linked Modernisms	April 2015 - August 2017 <a href="http://linkedmods.uvic.ca">http://linkedmods.uvic.ca</a>

Stanford University  
Stanford Encyclopedia of Philosophy

June - August 2014  
<https://plato.stanford.edu>

University of Alabama  
Syriac Reference Portal

October 2010 - August 2011  
<https://syriaca.org>

Logic Pedallers for McGraw-Hill  
Power of Logic Web Tutor

October 2008 - May 2009  
<http://www.poweroflogic.com>

## MENTORING

*Graduate:* Aishwarya Iyer, Adithya Nagaraj Tirumale, Rohit Zawar

*Undergraduate:* Evan Boggs, Tim Downey, Hannah Eli, Alex Frost, Lauren Gaynor, Bradi Heaberlin, Ram Iyer, Ryan Penelton, Wesley Pettyjohn, Jessie Pusateri, Loran Saggi, Kirtan Sakariya, Jesse Squires, Justin Stamets, Aish Thamba, Samuel Waggoner, Catherine Xu, Sara Zhang, Sam Zorowitz