

T. Heath Ogden

Utah Valley University
Biology Department
Orem, UT 84058

Telephone: 801-863-6909

E-mail Address: heath.ogden@uvu.edu

Appointments:

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| 2015-present | Associate Professor; Utah Valley University, Orem, UT. |
| 2009-2015 | Assistant Professor; Utah Valley University, Orem, UT. |
| 2006-present | Affiliate Faculty; Idaho State University, Pocatello ID. |
| 2006-2009 | Visiting Assistant Professor; Idaho State University, Pocatello ID. |
| 2005-2006 | Adjunct Faculty; Riosalado Community College, Tempe, AZ. |

Professional Preparation:

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| 01/05 – 06/06 | Postdoctoral research in computational genomics and bioinformatics, with Michael Rosenberg; Arizona State University, Tempe, Arizona. |
| 2004 | Ph.D. in Integrative Biology with emphasis in molecular systematics; Brigham Young University, Provo, Utah. Michael F. Whiting advisor |
| 2000 | M.S. with mention in Zoology; Universidad de Concepción, Concepción, Chile. Luis E. Parra advisor |
| 1996 | B.S. in Zoology; Brigham Young University, Provo, Utah |

Professional Societies:

Society for Molecular Biology and Evolution (SMBE) (2005-present)
Entomological Society of America (ESA) (2000 - present)
Society of Systematic Biologists (2002 - present)
Willi Hennig Society (2003 - 2008)
Dragonfly Society of America (DSA) (2003-2006; 2015-present)
Chilean Entomological Society (CES) (1997 - 2000)

Teaching

Courses (at UVU):

Biology 1010 – General Biology (Non-majors biology course)
Biology 1610 – College Biology I (Majors biology course)
Zoology 3430 – Entomology (with lab Zoology 3435)
Biology 4300 – Bioinformatics and Genome Analysis
Biology 4500 – Principles of Evolution (Biology majors)
Biology 4550 – Molecular Evolution and Bioinformatics (Biotech majors)
Biology 490R – Special Topics Biology Desert Natural History
Biology 494R – Senior Seminar

Biology 489R – Student Research

Biology 499R – Senior Thesis

Undergraduate Research Students:

Jacob Burdett*

James Barber*

Melanie Barber*

Nikk Bobo*

Karina Kirk Larsen*

Dave Fisher*

Adam Simmons*

Mike Simons

Michael Cookston*

Derek Johnson*

Aaron Fairbanks*

Mathew Ethington*

Tyler Smith*

Shannon Deurden*

Louis Eubank*

Samantha Telarroja*

Albert Zylstra*

Chase Barker*

Corey Barger*

Trevor Zobell*

Josh Holmes*

Ashton Godfrey

Julie Nance

David Tregaskis

Robert Putnam*

Trevor Gatenby*

Tanner Mortimer*

Jarom Schow*

Mark Tingey*

Jeffrey Leavitt*

Stephanie Bartlett*

Baden Morrill

Robert Erickson*

Daniel Oler

Danny Ferguson*

Brian Armstrong

Brain Hatch*

Dustin Miller*

Jake Loveless*

Austin Bettridge

Jesse Earl (UCAS HS student)

Gary Hatch

Trevor Chamberlain

Jacob Robinson*

Dalton Brady*

Mary Vallecillo*

Bryson Carrier*

Ishaah Talker*

Hayden Kallis*

Ruben Jimenez*

Austin Carter

Katie Peatross

Xavier Leiva

CaBri Montero*

Chad Talbot*

Nicholas Brian*

Angel Guerra*(UCAS HS student)

Curtis Hoffman*(UCAS HS student)

Jacob Delano*

Charles Pullen

Joseph Summerhays

Nick Newell

*undergraduates who have completed senior thesis or presented results at a scientific meeting

Scholarship

Publications:

(17 peer reviewed; 1 book chapter; 3 non-peer reviewed, *=UVU undergraduate)

Published

- *Miller D. B., *S. Bartlett, M. Sartori, J. W. Breinholt, and **T. H. Ogden**. Anchored phylogenomics of Burrowing Mayflies (Ephemeroptera) and the evolution of tusks. 2018. *Systematic Entomology*. In Press.
- Suvorov, A., N. O. Jensen, C. R. Sharkey, M. S. Fujimoto, P. Bodily, H. M. C. Wightman, **T. H. Ogden**, M. J. Clement, and S. M. Bybee. 2016. Opsins have evolved under the permanent heterozygote model: insights from phylotranscriptomics of Odonata. *Mol Ecol*. doi:10.1111/mec.13884
- Ogden, T. H.**, *et al. Common Insects of Capitol Reef National Park. UVU Printing Services. 2013
- Fairbanks, D. J., *A. D. Fairbanks, **T. H. Ogden**, G. J. Parker, and P. J. Maughan. 2012. NANOGP8: Evolution of a human-specific retro-oncogene. *Genes, Genomes, Genetics*: November, Volume 2, number 11.
- Parra, L. E. and **T. H. Ogden**. 2011. A new case constructing adelid moth from Chile (Lepidoptera). *Revista Brasileira de Entomologia*. 55(4): 560-564.
- Houston, D. D, **T. H. Ogden**, M. F. Whiting, D. K. Shiazowa. 2010. Polyphyly of the Pike minnows (Teleostei: Cyprinidae) Inferred Using Mitochondrial DNA Sequences. *Transactions of the American Fisheries Society* 139: 303-315.
- Rosenberg, M. S., and **T. H. Ogden**. 2009. Simulation approaches to evaluating alignment error and methods for comparing alternate alignments. Pp. 179-207 in *Sequence Alignment: Methods, Models, Concepts, and Strategies*, M.S. Rosenberg, ed. University of California Press: Berkeley, CA.
- Ogden, T. H.**, M. Sartori, J. L. Gattolliat, A. Staniczek, T. Soldan, and M. F. Whiting. 2009. Towards a new paradigm in mayfly phylogeny (Ephemeroptera): combined analysis of morphological and molecular data. *Systematic Entomology*. 34(4): 616-634.
- Ogden, T. H.**, J. Osborne, L. Jacobus, and M. F. Whiting. 2009. Combined morphological and molecular phylogeny of Ephemerellidae (Ephemeroptera). *Zootaxa* 1991:28-42.
- Bybee, S., **T. H. Ogden**, M. Braham, and M. F. Whiting. 2008. Molecules, Morphology and Fossils: A Comprehensive Approach to Odonate phylogeny and the evolution of the Odonate Wing. *Cladistics*. 24(4): 477-514.
- Ogden, T. H.**, M. Sartori, M. F. Whiting. 2008. Pisciforma, Setisura, and Furcatergalia (Order: Ephemeroptera) are not monophyletic based on 18S rDNA sequences: A Reply to Sun et al. (2006). *Annals of the Entomological*

Society of America. 101(1):1-6

- Ogden, T. H.**, and M. S. Rosenberg. 2007. Does direct optimization produce more accurate alignments and topologies? POY vs. ClustalW+PAUP*. *Systematic Biology*. 52(2): 182-193.
- Ogden, T. H.**, and M. S. Rosenberg. 2007. How should gaps be treated in parsimony? A comparison of approaches using simulation. *Molecular Phylogenetics and Evolution*. 42: 817-826.
- Ogden, T. H.**, and M. S. Rosenberg. 2006. Multiple sequence alignment accuracy and phylogenetic inference. *Systematic Biology*. 55(2): 314-328.
- Ogden, T. H.** and M. F. Whiting. 2005. Phylogeny of Ephemeroptera (mayflies) based on molecular evidence. *Molecular Phylogenetics and Evolution*. 37(3): 625-643.
- Ogden, T. H.**, M. F. Whiting, and W. C. Wheeler. 2005. Poor taxon sampling, poor character sampling, and non-repeatable analyses of a contrived dataset do not provide a more credible estimate of insect phylogeny: a reply to Kjer. *Cladistics*. 21(3): 295-302.
- Ogden, T. H.** and M. F. Whiting. 2003. The problem with the Paleoptera problem: sense and sensitivity. *Cladistics* 19(5): 432-442.
- Ogden, T. H.** and M. F. Whiting. 2003. Phylogeny of Ephemeroptera: Molecular Evidence. *Entomologische Abhandlungen*. 61(2): 126-127.
- Ogden, T. H.** and M. F. Whiting. 2003. Genomic tissue library of Odonata: a call for specimens. *Argia*.
- Ogden, T. H.**, W. P. McCafferty and M. F. Whiting. 2002. Phylogeny of the Ephemeroptera of the world: a call for specimens. *Mayfly Newsletter*. pp. 5-6.
- Ogden, T. H.** and L. E. Parra. 2001. Taxonomy and biology of a new Oecophoridae (Lepidoptera) from central Chile. *Revista Chilena de Historia Natural*. 74: 533-538.

Submitted

- J. Jensen, E. A. Holt, J. Sowards, and **T. H. Ogden**. 2018. Investigating Content-delivery Modalities in a Flipped Classroom. *The Internet and Higher Education*. In review.
- E. A. Holt, **T. H. Ogden**, and S. L. Durham. 2018. The positive effect of role models in evolution instruction. *Evolution: Education and Outreach*. In review.

In Preparation

- Ogden, T. H., J. Breinholt, D. Miller. Phylogenomic analysis of Ephemeroptera. A case study for targeted enrichment capture.
- Miller, D. and T. H. Ogden. Genome characterization of *Parameletus columbiae*.
- Ogden, T. H. Flipped face-to-face outperforms online instruction: A case study in introductory Biology.
- Ogden, T. H., et al. Phylogeny of Baetidae (Ephemeroptera).
- Ogden, T. H., et al. Phylogeny of Heptageniidae

(Ephemeroptera)

- Ogden, T. H., et al. Phylogeny of Pannota (Ephemeroptera).
- Fairbanks, D.J., et al. Fusion of chromosome 2 in humans.

Scholarships, Fellowships & Awards:

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| Presidential Fellowship: Mayfly Transcriptomes to Study Evolution and Development of Wings | 2017 | \$8,000 |
| Gateway initiative to redesign Biol 1010, 1610, and 1615. Office of Teaching and Learning, UVU. | 2017 | \$25,000 |
| UVU SAC (Scholarly Activities Committee) | 2017 | \$3,975 |
| UVU URSCA grants | 2017 | \$4,700 |
| NSF EAGER: SG: RUI: Phylogeny of Mayflies (Ephemeroptera) – Supplemental funding | 2017 | \$39,500 |
| NSF EAGER: SG: RUI: Phylogeny of Mayflies (Ephemeroptera) – Supplemental funding | 2016 | \$12,500 |
| UVU URSCA grants | 2016 | \$4,926 |
| UVU HIELG: Assessing the mechanisms that improve student performance and completion in General Biology | 2015 | \$102,950 |
| NSF EAGER: SG: RUI: Phylogeny of Mayflies (Ephemeroptera) | 2015 | \$150,000 |
| UVU URSCA grants | 2015 | \$1,576 |
| USHE TICE Biolody1010 Curriculum Development Proposal | 2013 | \$275,843.12 |
| UVU Presidential Fellowship | 2012 | \$8,000 |
| UVU SURF (Summer Undergraduate Research Fellowships) | 2012-2015 | \$6,000 |
| UVU SAC (Scholarly Activities Committee) | 2009-2016 | \$39,000 12 hours reassigned time |
| UVU GEL (Grants for Engaged Learning) | 2011-2015 | \$31,500 |
| UVU Capitol Reef Field Station grant | 2010-2015 | \$8,008 |
| UVU CEL (Center for Engaged Learning) | 2009 | \$5,000 |
| UVU SCOP (Student Scholarly and Creative Opportunities Program) | 2010-2011 | \$7,000 |
| UVU Grant Writing Stipend | 2009, 2014 | \$6,500 |
| UVU Senate Faculty Travel Grant | 2009 | \$400 |
| BYU mentoring undergraduates grant | 2004 | \$6,000 |
| BYU Booth Scholarship of Entomology | 2004 | \$1,000 |
| BYU Graduate Fellowship | 2003-2004 | \$6,000 |
| Marie Stopes travel award from the Hennig Society | 2003 | |
| BYU mentoring undergraduates grant | 2003 | \$6,000 |
| BYU Booth Scholarship of Entomology | 2003 | \$1,000 |
| NSF DDIG (Doctoral Dissertation Improvement Grant) | 2002 | \$10,000 |
| BYU Graduate Studies Travel Grant | 2002 | \$400 |
| President’s Prize for the student Competition, Honorable Mention, Entomological Society of America | 2002 | |
| BYU Booth Scholarship of Entomology | 2000 | \$1,000 |
| Zoology department scholarship for outstanding graduate students, Universidad de Concepcion | 1997-2000 | \$3,000 |

Oral Presentations:

(54 oral presentations, *undergraduate co-author)

1. **Ogden TH. Invited Speaker.** Roots of Knowledge and the Tree of Life. Roots of Knowledge Speaker Series. UVU. 2017
2. **Ogden TH. Keynote Speaker.** Let Life Bug You! Empower yourself. UVU Empowering your Tomorrow conference. UVU. 2017
3. Miller D* and **Ogden TH.** Tusk evolution in the burrowing mayflies: traditional genes vs. phylogenomics. Evolution. Portland, OR. 2017
4. **Ogden TH,** Miller D, and J Breinholt. The Evolution of Mayflies: Ephemeroptera Phylogenomics. Evolution. Portland, OR. 2017
5. Ferguson D* and **Ogden TH.** Accepting Evolution: Factors that lead to change in students' acceptance of evolution. Evolution. Portland, OR. 2017
6. **Ogden TH. Keynote Speaker.** Lessons from Darwin: for research and life. UCUR. UVU. 2017
7. Ferguson D* and **Ogden TH.** To accept or not accept: A study of evolution and worldview reconciliation in an Introductory Biology course. UCUR. UVU. 2017
8. **Ogden TH.** Simulation studies in bioinformatic research. ACS Northwest Regional Meeting (NORM). June 2015
9. **Ogden TH.** Molecular Phylogenetics of Mayflies: status and future directions. XIV International Conference on Ephemeroptera and XVIII International Symposia on Plecoptera. Aberdeen, Scotland. June 2015.
10. **Ogden TH.** Evolution, Education, and Entomology: Evolution's importance in the classroom. UVU Prep. June 2015.
11. **Ogden TH** and Jeffery DE. Natural Law in LDS Theology: Prospects for The 21st Century. Sunstone. Salt Lake City. 2014
12. **Ogden TH** and Holt E. Flipped Face-to-Face versus Online: A Case Study in Introductory Biology. SoTE. Utah Valley University. 2014
13. Holt E and **Ogden TH.** Content, Delivery of Content or the Messenger of Content: What Makes Evolution 'Acceptable'? SoTE. Utah Valley University. 2014
14. Mortimer T*, Holt E, and **Ogden TH.** Perceptions of Evolution: Insights from interviews. UCUR. Brigham Young University. 2014.
15. **Ogden TH.** Biology Buffet: Bugs, Evolution, and Teaching. UVU Department of Biology Seminar. Fall 2013.
16. **Ogden TH.** The Common Insects of Capitol Reef. Entrada Institute, Torrey UT. August 2013.
17. Holt E and **Ogden TH.** Teaching Evolution to Undergraduates: Can We Change Their Minds? SABER Meeting. University of Minnesota. 2013.
18. Schow J* and **Ogden TH.** Snapshot: An interactive taxonomy-driven tool for phylogenetic dataset construction. Evolution Meeting. Snowbird, UT. 2013.
19. **Ogden TH,** Mortimer T*, Vance J*, and Holt E. Teaching Evolution: Can We

- Change Their Minds? Evolution Meeting. Snowbird, UT. 2013.
20. Tingey M* and **Ogden TH**. Basal pterygote relationships and its implications for the evolution of flight in insects. UCUR. Utah State University. 2013.
 21. Schow J* and **Ogden TH**. An interactive, taxonomy-driven tool for genetic sequence database mining. UCUR. Utah State University. 2013.
 22. Mortimer T*, Holt E, and **Ogden TH**. Student Perceptions and Knowledge of Evolution. UCUR. Utah State University. 2013.
 23. Eubank L*, Talarroja S*, and **Ogden TH**. Combined Morphological and Molecular Phylogeny of Pannota (Mayflies). NCUR. Weber State University. 2012.
 24. Ethington M* and **Ogden TH**. Insects of Capitol Reef National Park. NCUR. Weber State University. 2012.
 25. **Ogden TH**. Evolution, Education, Entomology: Evolution's importance in the classroom and research. UVU Biology Department Seminar. Utah Valley University. September 2011.
 26. **Ogden TH**, Cookson M*, and Zobell T*. The Paleoptera Problem: Revisited. Entomological Society of America. Reno, NV. 2011.
 27. **Ogden TH**. Angels and Demons (and Mayflies): The Evolution of Flight in Insects. UVU Thinks Big. Utah Valley University. September 2011.
 28. **Ogden TH**. Using clickers to enhance student learning. Concurrent Enrollment Meeting. Utah Valley University, Department of Biology. Jan 2011
 29. **Ogden TH**. Using clickers to enhance student learning. Pearson Technology Event. Salt Lake Community College. 2011.
 30. Cookson M* and **Ogden TH**. Snapshot phylogenetics: Workflow from genbank to trees. UCUR, Weber State University, Ogden, UT. 2011.
 31. Simmons A* and **Ogden TH**. Phylogeny of Caenoidea (Ephemeroptera). UCUR, Weber State University, Ogden, UT. 2011.
 32. **Ogden TH**. Alignment and Topological Accuracy: Clustal+PAUP* vs POY revisited. Evolution Meeting. Portland, OR. 2010.
 33. **Ogden TH** The Evolution of Flight in Insects: Insights from Mayflies and DNA. Utah Valley University, Department of Biology Seminar. Jan 2010
 34. **Ogden TH** The Evolution of Flight in Insects: Insights from Mayflies and DNA. Idaho State University Practical Bioinformatics Workshop. Lava Hot Springs, ID. 2009
 35. **Ogden TH** The Evolution of Flight in Insects: Insights from Mayflies and DNA. Brigham Young University Idaho. Rexburg, ID. 2009.
 36. **Ogden TH** The Importance of Accurate DNA Sequence Alignment. Idaho State University Bioinformatics Workshop. Lava Hot Springs, ID. 2007.
 37. **Ogden TH** Work-flow via simulation to test accuracy. Idaho State University Bioinformatics Workshop. Lava Hot Springs, ID. 2007.
 38. **Ogden TH** Phylogenomics and Bioinformatics: Mayflies and Molecules: Evolution and Phylogeny of Basal Winged Insects. Invited Seminar Speaker. University of Arkansas, 2007.

39. **Ogden TH** Phylogenomics and Bioinformatics: From Insect Evolution to Computational Biology. Invited Seminar Speaker. Idaho State University, 2006.
40. **Ogden TH** and Rosenberg MS. Direct Optimization vs. Traditional Phylogenetics: Alignment and Topological Accuracy. *SMBE* 2006.
41. **Ogden TH** and Rosenberg MS. The use of simulation to study the role of alignment accuracy in phylogenetic inference. *Evolution*, 2005, finalist in Ernst Mayr Award competition.
42. **Ogden TH** and Whiting MF. Phylogeny of Ephemeroptera based on molecular evidence. XI International Conference on Ephemeroptera and XV International Symposium on Plecoptera, 2004 Joint Meeting - August 22-29, 2004.
43. **Ogden TH** and Whiting MF. Phylogeny and evolution of mayflies (Ephemeroptera). *Evolution*, 2004, finalist in Ernst Mayr Award competition.
44. **Ogden TH** and Whiting MF. Phylogeny and evolution of mayflies (Ephemeroptera). International Meeting of the Entomological Society of America, 2004.
45. Osborne JT, **Ogden TH**, Jacobus LM, McCafferty WP, Whiting MF. Phylogeny of Ephemereleididae (Ephemeroptera): Combined Approach Based on Morphological and Molecular Data. International Meeting of the Entomological Society of America, 2004.
46. **Ogden TH** and Whiting MF. The Paleoptera Problem: Sense and Sensitivity. Willi Hennig Society Meeting, 2003.
47. **Ogden TH** and Whiting MF. Phylogeny of Ephemeroptera: molecular evidence. The Phylogenetic Relationships within the Insect Orders, Dresden, Germany, 2003 (Invited symposium speaker).
48. **Ogden TH** and Whiting MF. Evolution of the delicate ones: phylogeny of Ephemeroptera based on molecular evidence. International Meeting of the Entomological Society of America, 2003.
49. **Ogden TH** and Whiting MF. The Paleoptera Problem: Sense and Sensitivity. Pacific Branch of the Entomological Society of America, 2003 (Invited symposium speaker).
50. **Ogden TH** and Whiting MF. Odonata Genomics. DSA, 2003 (invited speaker).
51. **Ogden TH** and Whiting MF. The Paleoptera Problem: Sense and Sensitivity. *Evolution*, 2002
52. **Ogden TH** and Whiting MF. You gotta know when to fold `em: Is Paleoptera Monophyletic? International Meeting of the Entomological Society of America, 2002.
53. **Ogden TH** and Whiting MF. Higher-Level Phylogeny of Ephemeroptera: Molecular Evidence. International Meeting of the Entomological Society of America, 2001.
54. **Ogden TH** and Whiting MF. Higher-Level Phylogeny of Ephemeroptera: Preliminary Molecular Evidence. Willi Hennig Society Meeting, 2001.

Poster Presentations:

- Talbot C* and **Ogden TH**. Are Humans Just Animals? A Study of the Acceptance of Evolution. UCUR. SUU. 2018
- Guerra A*, Hoffmann C*, and **Ogden TH**. Molecular Phylogeny of

- Mayflies (Ephemeroptera). UCUR. SUU. 2018
- Montano C* and **Ogden TH**. Traditional Genes May be Misleading: A Phylogenetic Analysis of Ameletopsidae (Ephemeroptera). UCUR. SUU. 2018
 - Delano J* and **Ogden TH**. Transcriptomes show us the way: Opsin evolution in Mayflies (Ephemeroptera). UCUR. SUU. 2018
 - Brian N*, Delano J*, and **Ogden TH**. Rearing Ephemeroptera in the Lab: Parthenogenesis and Transcriptome Data In the Mayflies. UCUR. SUU. 2018
 - Talker I* and **Ogden TH**. Phylogeny of Mayfly Subfamily Ecdyonurinae (Heptageniidae: Ephemeroptera). Evolution. Portland, OR. 2017
 - Talbot C* and **Ogden TH**. Biology Majors Acceptance of Evolution. Evolution. Portland, OR. 2017
 - Carrier B*, Ferguson D*, and **Ogden TH**. Molecular Analysis of Mayfly Family Baetidae (Ephemeroptera). Evolution. Portland, OR. 2017
 - Kallis H and **Ogden TH**. A Phylogenetic Analysis of the Pannota. Evolution. Portland, OR. 2017
 - Talker I* and **Ogden TH**. Phylogeny of Mayfly Subfamily Ecdyonurinae (Heptageniidae: Ephemeroptera). UCUR. UVU. 2017
 - Carrier B*, Ferguson D*, and **Ogden TH**. Molecular Phylogeny of Baetidae (Ephemeroptera). UCUR. UVU. 2017
 - Brady D* and **Ogden TH**. Evolution of Protective Square Gills in Caenoidea Mayflies. UCUR. UVU. 2017
 - Kallis H, Jimenez R and **Ogden TH**. A Phylogenetic Analysis of the Superfamily Ephemerelloidea (Ephemeroptera). UCUR. UVU. 2017
 - Talker I* and **Ogden TH**. Phylogeny of Mayfly Subfamily Ecdyonurinae (Heptageniidae: Ephemeroptera). UCUR. University of Utah. 2016
 - Carrier B* and **Ogden TH**. Phylogenetic Relationships of Mayfly Family Baetidae (Ephemeroptera). UCUR. University of Utah. 2016
 - Brady D* and **Ogden TH**. Evolution of Protective Square Gills in Caenoidea Mayflies. UCUR. University of Utah. 2016
 - Erickson R*, Hatch B*, and **Ogden TH**. Species List of Insects in Capitol Reef National Park. UCUR. Dixie State University. 2015.
 - Ferguson D* and **Ogden TH**. To accept or not accept: A study of evolution and worldview reconciliation in an Introductory Biology course. UCUR. Dixie State University. 2015.
 - Loveless J* and **Ogden TH**. Comparison of Macroinvertebrate assemblages of two perennial streams in Capitol Reef National Park. 2015.
 - Bartlett S*, Layton, B*, and **Ogden TH**. Gone Again: A story of evolution, mandibular tusks, and burrowing mayflies. UCUR. Dixie State University. 2015.
 - Barker C*, Gatenby T*, and **Ogden TH**. Evolution and Molecular Phylogenetics of

- Baetidae (Ephemeroptera). UCUR. Dixie State University. 2015.
- Barker C*, Gatenby T*, and **Ogden TH**. Insights into the evolution of wings in Insects: Molecular Phylogenetics of Baetidae (Ephemeroptera). UCUR. Brigham Young University. 2014.
 - Bartlett S* and **Ogden TH**. Evolution of Burrowing Mayflies: Tusks be gone. UCUR. Brigham Young University. 2014.
 - Erickson R* and **Ogden TH**. Pamphlet and Survey of Common Insects of Capitol Reef National Park. UCUR. Brigham Young University. 2014.
 - Fairbanks A*, **Ogden TH**, Parker G, Maughan, PJ, Fairbanks DJ. *NANOGP8*: The evolution of a human-specific retro-oncogene. UCUR. Utah State University. 2013.
 - Bartlett S* and **Ogden TH**. Evolution of the mandibular tusks in burrowing mayflies (Ephemeroptera). UCUR. Utah State University. 2013.
 - Barker C*, Gatenby T*, and **Ogden TH**. Molecular Phylogeny of the Mayfly Family Baetidae (Ephemeroptera). UCUR. Utah State University. 2013.
 - Ethington M* and **Ogden TH**. Insects of Capitol Reef National Park. UCUR. Utah State University. 2013.
 - Leavitt J* and **Ogden TH**. Phylogeny of Ephemerellidae (Ephemeroptera). UCUR. Utah State University. 2013.
 - Putnam R* and **Ogden TH**. Molecular Phylogeny of the Fused-back Mayflies (Pannota: Mayflies). UCUR. Utah State University. 2013.
 - Fairbanks A*, **Ogden TH**, Parrker G, Maughan J, and Fairbanks D. *NANOGP8*: The evolution of a human-specific retro-oncogene. NCUR. Weber State University. 2012.
 - Telloja S*, Eubank L*, and **Ogden TH**. Spiny crawlers on trees: phylogeny of Ephemerellidae (Ephemeroptera). Smith T*, Barker C*, and **Ogden TH**. To Baetidae or not to Baetidae: comprehensive phylogeny of baetid mayflies (Ephemeroptera). NCUR. Weber State University. 2012.
 - Barger C*, Holmes J*, and **Ogden TH**. Burrowing Mayflies (Ephemeroptera). NCUR. Weber State University. 2012.
 - Smith T*, Zylstra A*, and **Ogden TH**. To Baetidae or not to Baetidae: comprehensive phylogeny of baetid mayflies. Entomological Society of America. Reno, NV. 2011.
 - Ethington M* and **Ogden TH**. Insects of Capitol Reef National Park. Entomological Society of America. Reno, NV. 2011.
 - Eubank L*, Telloja S*, and **Ogden TH**. Spiny crawlers on trees: phylogeny of Ephemerellidae (Ephemeroptera). Entomological Society of America. Reno, NV. 2011.
 - Barber J *, Smith T *, Simmons A*, Larsen K*, Johnson D*, Ethington M*, Burdett J*, Olsen K*, Bobo N*, Brown S*, Monk M, and **Ogden TH**. Diversity of insects in Capitol Reef National Park. UCUR, Weber State University, Ogden, UT 2010.
 - Barber* M, Barber J*, and **Ogden TH**. Southern Utah insect collecting: What

varieties of insects reside in the Moab and Colorado River areas? UCUR, Weber State University, Ogden, UT 2010.

- Burdett J* and **Ogden TH**. Pannota: Who's who in the family? UCUR, Weber State University, Ogden, UT 2010.
- Ethington M* and **Ogden TH**. Phylogeny of Ameletopsidae: Some of the carnivores of the mayfly world. UCUR, Weber State University, Ogden, UT 2010.
- Fairbanks A* and **Ogden TH**. NANOG retropseudogene evolution in primate genomes. UCUR, Weber State University, Ogden, UT 2010.
- Johnson D*, Smith T*, and **Ogden TH**. Phylogeny and evolution of Baetidae. UCUR, Weber State University, Ogden, UT 2010.
- Larsen K*, Larsen J*, and **Ogden TH**. Western United States insect specimens for UVU's new entomology course. UCUR, Weber State University, Ogden, UT 2010.
- Nelson-Hadley J* and **Ogden TH**. Movement patterns and activity budgets of a marine foraging troop of Chacma baboons (*Papio hamadryas ursinus*) on the Cape Peninsula, South Africa. UCUR, Weber State University, Ogden, UT 2010.

*undergraduate co-author

Service:

To the University

Member Advisory Board for Capitol Reef Field Station (CRFS) (2011-present)
UVU IRB committee member (2010-present)
Chair, Core Courses for Curriculum Committee (2009 – present)
Member of Tenure Policy writing Committee (2014)
Speaker and Mentor at UVU PREP (2013 & 2014)
Learning Community Participation – Biology & Math (2013 & 2014)
Designer Gold course Biology 1010 for Distance Education (2013)
Committee member, search committee for College of Science and Health Computer Technician (2012)
Chair, search committee for CRFS manager (2011)
Committee member, committee for Biol 1615 lab reconstruction (2011)
Committee member, committee for Biol 1010 textbook selection (2011)
Committee member, search committee for STEP grant technician (2010)
Committee member, search committee for plant biologist position (2010)
Biotechnology Club: I participated in the meetings and interacted and mentored the students that belong to the Biotech Club (2009)

To the Community (scientific and local)

Reviewer for the journals: BMC Bioinformatics, BMC Evolutionary Biology, Systematic Biology, Molecular Phylogenetics and Evolution, Cladistics, Bioinformatics, Systematic Entomology, Zoological Science, Zootaxa, Western North American Naturalist, Morphology, Trends in Evolutionary Biology, Freshwater Science, Insect

Systematics and Evolution, Zoologica Scripta, Molecular Biology and Evolution,

Reviewer for National Science Foundation

Designer Technology Intensive Concurrent Enrollment (TICE) Course for USHE (2013-2014)

Collaborators and Co-Editors:

Branham, Mark. University of Florida
Bybee, Seth. Brigham Young University
Fairbanks, Daniel. Utah Valley University.
Gattolliat, Jean-Luc. Zoological Museum, Lausanne, Switzerland
Jacobus, Luke. Indiana University
Maughan, Jeff. Brigham Young University
Parker, Glendon. Utah Valley University Parra,
Luis. Universidad de Concepcion, Chile.
Rosenberg, Michael. Arizona State University
Sartori, Michel. Zoological Museum, Lausanne, Switzerland
Soldan, Thomas. South Bohemian University, Czech Republic
Staniczek, Arnold. Staatliches Museum f'ur Naturkunde, Germany
Whiting, Michael. Brigham Young University

Graduate Advisors and Postdoctoral Sponsors:

Parra, Luis. Universidad de Concepcion, Chile
Whiting, Michael. Brigham Young University
Rosenberg, Michael. Arizona State University

Thesis and Postgraduate-Scholar Students:

- Vuataz, Laurent. PhD Candidate. Université de Lausanne. Switzerland. 2011.
- Burdett, Jacob. UVU Senior Thesis. 2010.
- Johnson, Derek. UVU Senior Thesis. 2011.
- Simmons, Adam. UVU Senior Thesis. 2011.
- Cookson, Michael. UVU Integrative Studies Senior Thesis. 2011.
- Deurden, Shannon. UVU Senior Thesis. 2011.
- Smith, Tyler. UVU Senior Thesis. 2012.
- Barker, Chase. UVU Senior Thesis. 2012.
- Bartlett, Stephanie. UVU Senior Thesis. 2012.
- Danny Ferguson. UVU Senior Thesis. 2017.
- Bryson Carrier. UVU Senior Thesis. 2017.
- CaBri Montano. UVU Senior Thesis. 2017.

Science Fair Judge – Cherry Hills Elementary. 2009.

Assisted in Science Fair Projects – Cherry Hills Elementary. 2009, 2012.
Guest Lecture on Entomology at Cherry Hills Elementary. 2010, 2011.
Guest Lecture at Payson Junior High School. 2013.
Merit Badge Counselor for Biology related areas for the Boy Scouts of America. 2009-2012.