

## Jo Wolfe

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Division of Invertebrate Zoology  
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### Professional Experience

2012-present American Museum of Natural History, Gerstner Scholar and Lerner-Gray Postdoctoral Fellow, Division of Invertebrate Zoology  
Supervisor: Dr. Mark Siddall

### Education

2007-2012 Yale University, Ph.D., Geology & Geophysics  
Thesis title: Fossil, molecular, and developmental approaches to elucidate pancrustacean phylogeny  
Supervisor: Professor Derek Briggs  
2009 Yale University, M.Phil., Geology & Geophysics  
2003-2007 University of Toronto (University College), H.BSc., Evolutionary Biology  
Supervisors: Professor Stephen Tobe and Professor Belinda Chang

### Peer-Reviewed Publications

In review Wolfe, J.M. and T.A. Hegna. Testing the phylogenetic position of Cambrian pancrustacean larval stages using semaphoront coding. *Systematic Biology*.  
In press Oakley, T.H., J.M. Wolfe, A.R. Lindgren and A.K. Zaharoff. Phylotranscriptomics to bring the understudied into the fold: Monophyletic Ostracoda, fossil placement and pancrustacean phylogeny. *Molecular Biology & Evolution* [doi:10.1093/molbev/mss216].  
2011 Legg, D.A., X. Ma, J.M. Wolfe, J. Ortega-Hernández, G.D. Edgecombe and M.D. Sutton. Lobopodian phylogeny reanalysed. *Nature* 476 [doi:10.1038/nature10267].  
2011 Wolfe, J.M., J.C. Oliver and A. Monteiro. Evolutionary reduction of the first thoracic limb in butterflies. *Journal of Insect Science* 11: 66 [available online: [insectscience.org/11.66](http://insectscience.org/11.66)].  
2008 Lenkic, L.E., J.M. Wolfe, B.S.W. Chang and S.S. Tobe. Endocrine, reproductive, and genetic differences in two populations of the cockroach *Diploptera punctata*. *Journal of Insect Physiology* 54(6): 931-938.

### Non-Peer-Reviewed Publications

2011 Mounce, R., A. Butler, K. Davis, A. Dunhill, R. Garwood, J. Lamsdell, D. Legg, G. Lloyd, M. Pittman, R. Warnock and J. Wolfe. An open letter in support of palaeontological digital data archiving. Published online [<http://www.supportpalaeodataarchiving.co.uk/>]. Covered by *Nature News* [doi:10.1038/472150a].

### Research Grants

2012-2015 NSF AVAToL (Assembling, Visualizing and Analyzing the Tree of Life) #1208272: “Next-generation phenomics for the tree of life”. Senior Personnel (PI: Maureen O’Leary)  
2011 Palaeontological Association travel grant

- 2010 Palaeontological Association travel grant
- 2010 Paleontological Society travel grant
- 2009 International Conference on the Cambrian Explosion travel grant

### Academic Awards

- 2011 International Congress on Invertebrate Morphology best student talk (1/2 winners)
- 2008-2009 Edwin Binney fellowship
- 2007-2012 Yale University graduate fellowship
- 2005 National Biology Competition Summer Research Experience scholarship
- 2004 National Biology Competition Summer Research Experience scholarship
- 2003 National Biology Competition admission scholarship to University of Toronto

### Invited Oral Presentations

- 2012 Wolfe, J.M. Fossil, molecular, and developmental approaches to pancrustacean phylogeny. Department of Anatomical Sciences, Stony Brook University: Stony Brook, New York.

### Conference Oral Presentations

- 2012 Wolfe, J.M. and T.A. Hegna. Testing the phylogenetic position of Cambrian ‘Orsten’ pancrustacean larval stages using semaphoront coding. Palaeontological Association Annual Meeting: Dublin, Ireland (submitted).
- 2012 Wolfe, J.M. Leveraging new phylophenomic techniques to discover ‘hidden’ support for ambiguous nodes in the arthropod tree of life. Geological Society of America Annual Meeting: Charlotte, North Carolina (accepted).
- 2012 Oakley, T.H. and J.M. Wolfe. Monophyly and phylogenetic placement of Ostracoda based on next-generation sequencing data. Geological Society of America Annual Meeting: Charlotte, North Carolina (accepted).
- 2011 Wolfe, J.M. and T.A. Hegna. Testing the phylogenetic placement of fossil pancrustacean larvae: a semaphoront-based coding system. 2<sup>nd</sup> International Congress on Invertebrate Morphology: Cambridge, Massachusetts.
- 2011 Wolfe, J.M. and D.A. Legg. Chelicerate tagmosis: inferred homeotic development in extinct taxa. Society for Integrative and Comparative Biology Annual Meeting: Salt Lake City, Utah.
- 2011 Oakley, T.H., A.R. Lindgren, J.M. Wolfe, A.K. Zaharoff and B. Juarez. Phylogeny and divergence times of Pancrustacea based on concatenated analysis of 200 genes and morphology. Society for Integrative and Comparative Biology Annual Meeting: Salt Lake City, Utah.
- 2010 Wolfe, J.M. and D.A. Legg. Chelicerate tagmosis: inferred mechanisms of development in extinct taxa. Palaeontological Association Annual Meeting: Ghent, Belgium.
- 2007 Lenkic, L.E., J.M. Wolfe, B.S.W. Chang and S.S. Tobe. Potential speciation in the viviparous cockroach, *Diploptera punctata*. 9<sup>th</sup> International Conference on the Juvenile Hormones: York, England.

### Poster Presentations

- 2011 Wolfe, J.M. and T.A. Hegna. Semaphoronts and the phylogenetic position of fossil pancrustacean larvae. Palaeontological Association Annual Meeting: Plymouth, England.
- 2010 Wolfe, J.M. Arthropod tagmosis: inferred expression of developmental genes in extinct taxa. International Palaeontological Congress: London, England.

- 2009 Wolfe, J.M., D.E.G. Briggs and A. Monteiro. Evolutionary reduction of the first thoracic limb in nymphalid butterflies. International Conference on the Cambrian Explosion: Banff, Alberta.
- 2008 Wolfe, J.M. and A. Monteiro. Evolutionary reduction of the first thoracic limb in nymphalid butterflies. Palaeontological Association Annual Meeting: Glasgow, Scotland.
- 2006 Goldman, C.A. and J.M. Wolfe. First-Year Learning Communities (FLC) Program. U of T Showcase of First-Year Initiatives, 19<sup>th</sup> International Conference on the First-Year Experience: Toronto, Ontario.
- 2005 Wolfe, J.M., D. Kolovos, B.S.W. Chang and S.S. Tobe. Potential speciation in the viviparous cockroach, *Diploptera punctata*. Eastern Great Lakes Molecular Evolution Meeting: Toronto, Ontario.

### Teaching Experience

- 2011 Lecturer: Quantitative Methods in Paleobiology, Yale University (course leader Amelinda Webb), topics: comparative methods in R including phylogenetic independent contrasts, ancestral state reconstruction, diversification analysis
- 2011 Teaching Fellow: Natural Hazards, Yale University (Professor David Bercovici)
- 2010 Teaching Fellow: History of Life, Yale University (Professor Derek Briggs and Professor Jacques Gauthier)
- 2008 Teaching Fellow: History of Life, Yale University (Professor Leo Hickey)
- 2006-2007 Peer Mentor: First-Year Learning Communities, University of Toronto
- 2005-2006 Program Assistant: First-Year Learning Communities, University of Toronto

### Additional Educational Experience

- 2012 Phenotype Ontology RCN Summit Meeting (NESCent: Durham, North Carolina), sponsored by NSF
- 2011 Summer School on Evolutionary Developmental Biology: From Gene Networks to Organismal Systems (Istituto Veneto di Scienze, Lettere ed Arti: Venice, Italy)
- 2011 Computational Phyloinformatics workshop (Bioinformatics Center of Kyoto University: Kyoto, Japan), sponsored by DBCLS/JST/NESCent
- 2010 Comparative Methods and Macroevolution in R workshop (NCEAS: Santa Barbara, California), sponsored by NSF/NESCent
- 2010 Science Writing workshop, taught by Carl Zimmer (Yale University)
- 2006 University of Toronto Independent Experiential Study: Evolution of red from inferred ancestral green fluorescent protein (5 week research project at Whitney Laboratory for Marine Biosciences: St. Augustine, Florida)
- 2002 PADI Open Water SCUBA certified (Lester B. Pearson College of the Pacific: Sooke, British Columbia)

### Professional Service

- 2012-present Reviewer for: *Proceedings of the National Academy of Sciences*
- 2012 Co-organizer, topical session on “The Origins of Arthropod Diversity: Phylogenetic Insights from the Living and the Dead”. Geological Society of America Annual Meeting: Charlotte, North Carolina.
- 2011-present MorphoBank Executive Committee member

### Professional Memberships

International Society for Invertebrate Morphology, Palaeontological Association, Paleontological Society, Society for Integrative and Comparative Biology, Society of Systematic Biologists, The Crustacean Society, American Association for the Advancement of Science