

CURRICULUM VITAE

John M. (Jack) Sullivan

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Education

1995 Ph.D. Ecology & Evolutionary Biology, University of Connecticut

1990 M.S. Zoology, University of Vermont

1985 B.A. Zoology, University of Vermont

Academic Positions

Director, Institute for Bioinformatics and Evolutionary Studies (IBEST), University of Idaho. July, 2015 – Present.

Professor of Biology, Department of Biological Sciences, University of Idaho. June, 2008 – Present.

Associate Professor of Zoology, Department of Biological Sciences, University of Idaho. July, 2002 – June, 2008.

Assistant Professor of Zoology, Department of Biological Sciences, University of Idaho. July, 1997 – June, 2002.

Postdoctoral Fellow, January, 1996 – July, 1997; Laboratory of Molecular Systematics, Smithsonian Institution (David L. Swofford, adviser).

Research Interests

Phylogenetic theory and methods; Conservation genetics; Hybridization and speciation; Systematics and evolution; Comparative phylogeography.

Early Research Experience

Graduate Research Assistant, 1993-1995; Ecology & Evolutionary Biology, University of Connecticut. Evolution of 12S rRNA.

Graduate Research Assistant, Summer 1992; Ecology & Evolutionary Biology, University of Connecticut. mtDNA sequence variation in New Zealand cicadas.

Graduate Research Assistant, Summer 1991; Ecology & Evolutionary Biology, University of Connecticut. Allozyme and mtDNA sequence variation in *Magicicada*.

Lab Technician, Fall 1990; Department of Zoology, University of Vermont. DNA-DNA hybridization in sigmodontine rodents.

Field Technician, Summer 1990; Department of Zoology, University of Vermont. Collection of sigmodontine rodents of Mexico.

Teaching

Mammalogy, Principles of Systematic Biology, Comparative Vertebrate Anatomy

Publications (<http://scholar.google.com/citations?user=x1d3PxUAAAAJ&hl=en>)

Total Citations: 4997 (as of August, 2016)

h-index: 34

i10 index: 48

(*Asterisks indicate UofI student research):

- *Metzger, G., A., Espíndola, L. P. Waits, and J. Sullivan. 2015. Genetic structure across broad spatial and temporal scales: Rocky Mountain tailed frogs (*Ascaphus montanus*; Anura: Ascaphidae) in the inland temperate rainforest. *Journal of Heredity*, 106:700-710. doi:10.1093/jhered/esv061.
- Sullivan, J., J. R. Demboski, K. C. Bell, S. Hird, *B. Sarver, N. Reid, and J. M. Good. 2014. Divergence-with-gene-flow within the recent chipmunk radiation (*Tamias*). *Heredity*. 113: 185-194. doi:10.1038/hdy.2014.27.
- Carstens, B. C., R. S. Brennan, V. Chua, C. V. Duffie, M. G. Harvey, R. A. Koch, C. D. McMahan, B. J. Nelsen, C. E. Newman, J. D. Satler, G. Seeholzer, K. Prosbic, D. C. Tank and J. Sullivan. 2013. Model selection as a tool for phylogeographic inference: An example from the willow *Salix melanopsis*. *Molecular Ecology*, 22:4014-4028. doi:0.1111/mec.12347.
- *Sen, D., C. J. Brown, E. M. Top, and J. Sullivan. 2013. Inferring the evolutionary history of the IncP-1 plasmids despite incongruence among backbone genes trees. *Molecular Biology and Evolution*, 30:154-166. (Published on-line August, 2012). doi:10.1093/molbev/mss210
- *Hoisington, J. L., L. P. Waits, and J. Sullivan. 2012. Species limits and integrated taxonomy of the Idaho ground squirrel (*Urocitellus brunneus*): Genetic and ecological differentiation. *Journal of Mammalogy*. 93: 589-604. DOI: 10.1644/09-MAMM-A-082.1
- *Reid, N., J. R. Demboski, and J. Sullivan. 2012. Phylogeny estimation of the radiation western American chipmunk (*Tamias*) in the face of introgression using reproductive protein genes. *Systematic Biology*, 61:44-62 (Published on-line in 2011) doi: 10.1093/sysbio/syr094.
- *Evans, J. and J. Sullivan. 2012. Generalized mixture models for molecular phylogenetic estimation. *Systematic Biology*. 61:12-21. (Published on-line in 2011) doi: 10.1093/sysbio/syr093.
- Francia, M. E., S. Wicher, D. A. Pace, J. Sullivan, S. N. J. Moreno, and G. Arrizabalaga. 2011. A *Toxoplasma* protein with homology to intracellular type sodium hydrogen exchangers is required for osmotolerance and protein processing. *Experimental Cell Research*. 317:1382-1396.
- *Evans, J. and J. Sullivan. 2010. Approximating model probabilities in BIC and DT approaches to model selection in phylogenetics. *Molecular Biology and Evolution*. 28:343-349. doi:10.1093/molbev/msq195.
- *Ripplinger, J. and J. Sullivan. 2010. Assessment of substitution-model adequacy using frequentist and Bayesian methods. *Molecular Biology and Evolution*. 27:2790- 2803. doi:10.1093/molbev/msq168.
- *Ripplinger, J., Z. Abdo, and J. Sullivan. 2010. Effects of parameter estimation on maximum-likelihood bootstrap analysis. *Molecular Phylogenetics and Evolution*, 56: 642-648.
- *Hird, S., N. Reid, J. R. Demboski, and J. Sullivan. 2010. Introgression at differentially aged hybrid zones in red-tailed chipmunks. *Genetica*, 138:869-883. doi:10.1007/s10709-010-9470-z.
- *Reid, N., *S. Hird, A. Schulte-Hostedde, and J. Sullivan. 2010. Examination of nuclear loci across a zone of mitochondrial introgression between *Tamias ruficaudus* and *T. amoenus*. *Journal of Mammalogy*, 91:1389-1400. doi: 10.1644/09-MAMM-A-082.1
- McPeck, M. A., D. L. DeAngelis, R. G. Shaw, A. J. Moore, M. D. Rausher, D. R. Strong, A. M. Ellison, L. Barrett, L. Reisberg, M. D. Breed, J. Sullivan, C. W. Osenberg, M. Holyoak, and M. A. Elgar. 2009. The golden rule of reviewing. *The American Naturalist*, 173: E155-

E158.

- Swofford, D. L. and J. Sullivan. 2009. Phylogenetic inference using parsimony and other methods using PAUP*. Pp. 260-312 In (P. Lemey, M. Salemi, A.M. Vandamme, eds.). *The Phylogenetic Handbook, Second Edition*. Cambridge University Press, Cambridge, UK.
- *Hird, S., and J. Sullivan. 2009. Assessment of gene flow across a hybrid zone in red-tailed chipmunks (*Tamias ruficaudus*). *Molecular Ecology*. 18:3097-3109. doi: 10.1111/j.1365-294X.2009.04196.x.
- *Ripplinger, J., and J. Sullivan. 2008. Does choice in model selection affect maximum likelihood analysis? *Systematic Biology*. 57:76-85.
- *Good, J., *S. Hird, *N. Reid, J. Demboski, S. Stepan, and J. Sullivan. 2008. Ancient introgression and mtDNA capture in non-sister species of chipmunks (*Tamias*). *Molecular Ecology*. 17:1313-1327. doi: 10.1111/j.1365-294X.2007.03640.x.
- Nagler, J. J., T. Cavileer, J. Sullivan, D. G. Cyr, and C. Rexroad III. 2007. The complete estrogen receptor family in the rainbow trout: discovery of novel *ER α 2* and both *ER β* isoforms. *Gene*, 392:164-173.
- *Nielson, M, K. Lohman, C. H. Daugherty, F. W. Allendorf, K. L. Knudsen, and J. Sullivan. 2006. Allozyme and mitochondrial DNA variation in the tailed frog (Anura: *Ascaphus*): The influence of geography and gene flow. *Herpetologica*. 62:235-258.
- Brunsfeld, S. J., and J. Sullivan. 2005. A multi-compartmented glacial refugium in the northern Rocky Mountains: Evidence from the phylogeography of *Cardamine constancei* (Brassicaceae). *Conservation Genetics*, 6:895-904.
- *Carstens, B.C., J. R. Demboski, *J. M. Good, S. J. Brunsfeld, and J. Sullivan. 2005. The evolutionary history of the northern Rocky Mountain mesic forest ecosystem. *Evolution*. 59:1639-1652.
- Sullivan, J. and P. Joyce. 2005. Model selection in phylogenetics. *Annual Review of Ecology Evolution & Systematics*, 36:445-466.
- *Carstens, B.C., A. Bankhead III, P. Joyce, and J. Sullivan. 2005. Testing population genetic structure using parametric bootstrapping: The Migrate-n test of population structure. *Genetica*, 124:71-75.
- *Steele, C. A., *B. C. Carstens, A. Storfer, and J. Sullivan. 2005. Testing hypotheses of speciation timing in *Dicamptodon copei* and *Dicamptodon aterrimus* (Caudata: Dicamptodontidae). *Molecular Phylogenetics and Evolution*, 36:90-100.
- Sullivan, J., *Z. Abdo, P. Joyce, and D. L. Swofford. 2005. Evaluating the performance of a successive-approximations approach to parameter optimization in maximum-likelihood phylogeny estimation. *Molecular Biology and Evolution*, 22:1386-1392.
- *Abdo, Z., V. Minin, P. Joyce, and J. Sullivan. 2005. Accounting for uncertainty in the tree topology has little effect on the decision theoretic approach to model selection in phylogeny estimation. *Molecular Biology and Evolution*, 22:691-703.
- Sullivan, J. 2005. Maximum-likelihood estimation of phylogeny from DNA sequence data. In (E. Zimmer & E. Roalson, eds.) *Molecular Evolution: Producing the Biochemical Data, Part B. Methods in Enzymology*, 395:757-779.
- *Carstens, B. C., *J. D. Degenhardt, *A. L. Stevenson, and J. Sullivan. 2005b. Accounting for coalescent stochasticity in testing phylogeographical hypotheses: modelling Pleistocene population structure in the Idaho giant salamander *Dicamptodon aterrimus*. *Molecular Ecology* 14:255-265.
- *Carstens, B. C., *A. L. Stevenson, *J. D. Degenhardt, and J. Sullivan. 2004. Testing nested phylogenetic and phylogeographic hypotheses in the *Plethodon vandykei* species group. *Systematic Biology*, 53:781-792.
- *Carstens, B. C, J. Sullivan, L. M. Davalos, P. A. Larsen, and S. C. Pedersen. 2004. Exploring

- population genetic structure in three species of Lesser Antillean bats. *Molecular Ecology*, 13:2557-2566.
- *Minin, V., *Z. Abdo, P. Joyce, and J. Sullivan. 2003. Performance-based selection of likelihood models for phylogeny estimation. *Systematic Biology*, 52:674-683.
- *Good, J. M., J. Demboski, D. M. Nagorsen, and J. Sullivan. 2003. Phylogeography and introgressive hybridization: Chipmunks (*Tamias*) in the northern Rocky Mountains. *Evolution*, 57:1900-1916.
- Swofford, D. L. and J. Sullivan. 2003. Phylogenetic inference using parsimony and maximum likelihood using PAUP*. Pp. 160-196 In (M. Salemi, A.M. Vandamme, eds.). *The Phylogenetic Handbook*. Cambridge University Press, Cambridge, UK.
- Demboski, J., and J. Sullivan. 2003. Extreme differentiation among populations of Yellow-pine chipmunks, *Tamias amoenus* (Rodentia; Sciuridae). *Molecular Phylogenetics and Evolution*, 26:389-408.
- *Winchell, C. J., J. Sullivan, C. B. Cameron, B. J. Swalla, and J. Mallatt. 2002. Evaluating hypotheses of deuterostome evolution with new LSU and SSU ribosomal DNA phylogenies. *Molecular Biology and Evolution*, 19: 48-761.
- *Good, J. M., and J. Sullivan. 2001. Phylogeography of red-tailed chipmunks (*Tamias ruficaudus*), a northern Rocky Mountains endemic. *Molecular Ecology*, 10:2683-2696.
- Brunsfeld, S., J. Sullivan, D. Soltis, and P. Soltis. 2001. Comparative phylogeography of northwestern North America: A synthesis. Pp. 319 – 339 In (J. Silvertown and J. Antonovics, eds.) *Integrating ecological and evolutionary processes in a spatial context*. Blackwell Science, Oxford.
- Sullivan, J. and D. L. Swofford. 2001. Should we use model-based methods for phylogenetic inference when we know assumptions about among-site rate variation and nucleotide substitution pattern are violated? *Systematic Biology*, 50:723-729.
- *Nielson, M. K., K. Lohman, and J. Sullivan. 2001. Phylogeography of the tailed frog (*Ascaphus truei*): Implications for biogeography of the Pacific Northwest. *Evolution*, 55:147-160.
- Mallatt, J., J. Sullivan, and *C. J. Winchell. 2001. The relationship of lampreys to hagfishes: A spectral analysis of ribosomal DNA sequences. In: *Major Events in Early Vertebrate Evolution: Palaeontology, Phylogeny, and Development*. (P. E. Ahlberg, ed.). Pp. 106-118. Taylor and Francis, London.
- *Harris, D. J., D. S. Rogers, and J. Sullivan. 2000. Phylogeography of *Peromyscus fuvvus* (Rodentia: Sigmodontinae) based on Cytochrome *b* sequences. *Molecular Ecology*, 9:2129 - 2136.
- Sullivan, J., *E. A. Arellano, and D. S. Rogers. 2000. Comparative phylogeography of Mesoamerican highland rodents: Concerted versus independent responses to past climatic fluctuations. *The American Naturalist*, 155:755-768.
- Steppan, S. J., and J. Sullivan. 2000. The emerging statistical perspective in systematic biology: A reply to Mares and Braun on the status of *Andalgalomys* (Rodentia: Sigmodontinae). *Journal of Mammalogy*, 81:260-270.
- Waits, L., J. Sullivan, S. J. O'Brien, and R. Ward. 1999. Mitochondrial DNA phylogeny for bears: single region trees and combined data trees. *Molecular Phylogenetics and Evolution*, 13:82-92.
- Sullivan, J., D. L. Swofford, and G. J. P. Naylor. 1999. The effect of taxon sampling on estimating rate-heterogeneity parameters of maximum-likelihood models. *Molecular Biology and Evolution*, 16:1347-1356.
- Mallatt, J., and J. Sullivan. 1998. 28S and 18S rDNA sequences support the monophyly of lampreys and hagfishes. *Molecular Biology and Evolution*, 15:1706-1718.
- Sullivan, J. and D. L. Swofford. 1997. Are guinea pigs rodents? The importance of adequate

- models in molecular phylogenetics. *Journal of Mammalian Evolution*, 4:77-86.
- Sullivan, J., J. A. Markert, and C. W. Kilpatrick. 1997. Phylogeography and molecular systematics of the *Peromyscus aztecus* group (Rodentia: Muridae) inferred using parsimony and likelihood. *Systematic Biology*, 46:426-440.
- Fрати, F., C. Simon, J. Sullivan, and D. L. Swofford. 1997. Evolution of the mitochondrial cytochrome oxidase II gene in Collembola. *Journal of Molecular Evolution*, 44:145-158.
- Sullivan, J. 1996. Combining data with different distributions of among-site rate variation. *Systematic Biology*, 45:375-380.
- Simon, C., L. Nigro, J. Sullivan, A. Franke, A. Grapputo, A. Martin, and C. McIntosh. 1996. Large among-taxon differences in the 12S rRNA gene: Implications for the molecular clock. *Molecular Biology and Evolution*, 13:923-932.
- Sullivan, J., K. E. Holsinger, and C. Simon. 1996. The effect of topology on estimates of among-site rate variation. *Journal of Molecular Evolution*, 42:308-312.
- Hickson, R. E., C. Simon, A. J. Cooper, G. Spicer, J. Sullivan, and D. Penny. 1996. A refined secondary structure model, conserved motifs, and alignment for the third domain of animal 12S rRNA. *Molecular Biology and Evolution*, 13:150-169.
- Sullivan, J., K. E. Holsinger, and C. Simon. 1995. Among-site rate variation and phylogenetic analysis of 12S rRNA in sigmodontine rodents. *Molecular Biology and Evolution*, 12: 988-1001.
- Sullivan, J. M. and C. W. Kilpatrick. 1991. Biochemical systematics of the *Peromyscus aztecus* assemblage. *Journal of Mammalogy*, 72:681-689.
- Sullivan, J. M., C. W. Kilpatrick, and P. D. Rennert. 1991. Biochemical systematics of the *Peromyscus boylii* species group. *Journal of Mammalogy*, 72:681-696.

Solicited Book Reviews

- Sullivan, J. 2015. Review of *Mammalogy*: 6th edition. (T. A. Vaughan, J. M. Ryan, and N. J. Czaplewski, authors). *Journal of Mammalogy*, In Press.
- Sullivan, J. 1998. Review of *Molecular Evolution*. (W.-H. Li, author). *Systematic Biology*, 47:173-175.

Manuscripts in Review/Revision

- Espíndola, A., M. Ruffley, M. Smith, B. C. Carstens, D. C. Tank, and J. Sullivan. In Review. Predicting cryptic diversity from phylogeographic, climatic and taxonomic data. Submitted to *Proceedings of the Royal Society of London B*.
- Sarver, B. A. J., M. W. Pennell, J. W. Brown, K. M. Hardwick, J. Sullivan, and L. Harmon. In Revision. The choice of tree prior and molecular clock does not substantially affect phylogenetic inferences of diversification rates. Submitted to *Systematic Biology*.
- Sarver, B. A. J., J Demboski, J. M. Good, N. Forshee, S. L. Hunter, and J. Sullivan. In Revision. Comparative mitochondrial phylogenomic assessment of introgression among several species of chipmunks (*Tamias*). Submitted to *Genome Biology and Evolution*.

Invited Symposia and Workshops

- 2013 – Society of Systematic Biologists Presidential Address, Snowbird Utah. *Systematic biology two decades after Snowbird 1993, and w(h)ither the species tree?*
- 2007 – NSF Sponsored Workshop on Biogeography, Las Vegas Nevada.
- 2006 – Annual Meetings, Society of Systematic Biology Species Delimitation: New Approaches for Discovering Diversity. *Detecting hybridization and species limits with phylogeographic data*.
- 2006 – Annual Meetings of the Idaho Academy of Sciences, Plenary Session – *Genetics and*

- evolution of the inland mesic forest ecosystem.*
- 2001 – University of Southern Illinois, Systematic Biology Symposium, Keynote Speaker. *Statistical tests in comparative phylogeography: Methods and examples from the Pacific Northwest and Middle American Highlands.*
- 1997 – International Theriological Congress VII, Symposium on Systematics and Biogeography of Montane Rodents of Southeastern Mexico and Northern Central America. *Phylogeography and molecular systematics the Peromyscus aztecus complex.*
- 1997 – International Theriological Congress VII, Symposium on Molecular Systematics of Peromyscine Rodents. *The importance of adequate models in the molecular systematics of rodents.*
- 1996 – Annual Meetings, Italian Society of Zoologists, Plenary Session - *Advances in molecular systematics: Examining conflict between molecular and classical data sets.*
- 1995 – Annual Meetings, Society of Systematic Biology, Symposium on Incorporating Molecular Evolution into Molecular Phylogenetic Analyses. *Accommodating among-site rate variation in phylogenetic analyses.*
- 1994 – New England Molecular Evolution Meetings. Gene Tree/Species Tree Symposium. *Congruence and conflict in Peromyscus systematics.*

Invited Departmental Seminars

- 2014 – University of Maryland, Graduate Program in Behavior, Ecology, Evolution and Systematics
- 2014 – The Washington Area Phylogenetics Consortium (Smithsonian Institution)
- 2012 – Eastern Washington University, Darwin Day Lecture
- 2010 – University of Vermont, Department of Biological Sciences
- 2010 – Massey University, School of Molecular Biosciences
- 2010 – Massey University; Department of Ecology
- 2010 – Massey University; Alan Wilson Center for Molecular Evolution and Ecology
- 2009 – Texas Tech University; Department of Biological Sciences
- 2009 – University of Idaho; Fish & Wildlife Resources
- 2009 – Louisiana State University; Systematics, Ecology, & Evolution
- 2007 – Portland State University; Department of Biology
- 2005 – University of Texas; Integrative Biology
- 2004 – University of Illinois, Urbana-Champaign; Program in Ecology & Evolutionary Biology
- 2004 – University of Vermont; Department of Biology
- 2003 – Boise State University; Department of Biology
- 2003 – University of Washington; Department of Biology
- 2001 – University of Nevada, Las Vegas; Department of Biological Sciences
- 2000 – University of Connecticut; Department of Ecology and Evolutionary Biology
- 1999 – University of Nevada, Reno; Program in Ecology, Evolution, and Conservation Biology
- 1998 – University of Idaho; Departments of Statistics and Computer Science
- 1998 – Washington State University; Department of Zoology
- 1997 – University of Idaho; Department of Fisheries and Wildlife
- 1997 – Brigham Young University; Department of Zoology
- 1996 – Smithsonian Institution; Division of Vertebrate Zoology
- 1996 – George Washington University; Department of Biological Sciences
- 1996 – National Museum of Natural History; Vertebrate Zoology
- 1996 – San Francisco State University; Biology Department
- 1996 – University of Idaho; Department of Biological Sciences

Contributed Talks/Posters

- 2016 – SSE/SSB/ASN Annual Meetings (3 talks).
- 2013 – SSE/SSB/ASN Annual Meetings (1 talk, 2 posters).
- 2011 – SSE/SSB/ASN Annual Meetings (1 talk).
- 2010 – Annual New Zealand Phylogenetics Conference (1 talk).
- 2009 – SSE/SSB/ASN Annual Meetings (3 talks).
- 2008 – SSE/SSB/ASN Annual Meetings (2 talks).
- 2006 – SSE/SSB/ASN Annual Meetings (1 talk, 2 posters).
- 2005 – NSF/DFG Symposium: Understanding Species Diversity on Earth (poster).
- 2004 – SSE/SSB/ASN Annual Meetings (1 talk, 1 poster).
- 2003 – SSE/SSB/ASN Annual Meetings (1 talk, 1 poster).
- 2002 – SSE/SSB/ASN Annual Meetings (1 talk, 1 poster).
- 2001 – Annual Meeting of the American Society of Mammalogists (3 talks).
- 2000 – SSE/SSB/ASN Annual Meetings (2 talks, 1 poster).
- 2000 – Northwestern Regional Meetings, Wildlife Society.
- 1999 – SSE/SSB/ASN Annual Meetings.
- 1998 – SSE/SSB/ASN Annual Meetings.
- 1997 – SSE/SSB/ASN Annual Meetings.
- 1996 – SSE/SSB/ASN Annual Meetings.
- 1995 – Annual Meeting of the American Society of Mammalogists.
- 1994 – SSE/SSB/ASN/SMBE Annual Meetings.
- 1994 – Eastern Great Lakes Molecular Evolution Meetings.
- 1993 – SSE/SSB/ASN/SMBE Annual Meetings.
- 1993 – New England Molecular Evolution Meetings.
- 1993 – University of Connecticut Graduate Student Symposium.
- 1992 – University of Connecticut Graduate Student Symposium.
- 1991 – University of Connecticut Graduate Student Symposium.
- 1990 – Annual Meeting of the American Society of Mammalogists.

Grants and Awards

- 2015 – NSF Biodiversity Discovery and Analysis DEB-1457726. \$622,614. May 2015 – April 2018. *Collaborative Research: A Comparative Phylogeographic Approach to Predicting Cryptic Diversity - The Inland Temperate Rainforest as a Model System*. David Tank is CoPI, UofI is the lead institution, and collaborator Bryan Carstens (Ohio State University) also received \$284,000 for his activities on the same project.
- 2014 – National Geographic Society Committee for Research and Exploration. \$12,865. July 2014 – June 2015. *A Comparative Phylogeographic Approach to Predicting Cryptic Diversity: Inland Northwest Rainforests as a Model Ecosystem*. CoPIs are David Tank and Bryan Carstens.
- 2013 - IBEST Technology Access Grant. \$7720. January - December 2014. *Developing ddRADSeq approaches for the study of coevolution of oil-eating bees and the plants they pollinate*.
- 2012 – NSF BEACON Project Grant. \$20,945. September 2012 – December 2013. *An Integrated Approach to Testing the Divergence with Gene Flow Model of Speciation; Empirical Genomics, Simulation, and in silico Evolution*. This is a collaboration among Sullivan, James Foster, & David Hillis.
- 2011 - NSF BEACON Project Grant. \$96,949. August 2011 - July 2012. *An Integrated Approach to Testing the Divergence with Gene Flow Model of Speciation;*

- Empirical Genomics, Simulation, and in silico Evolution*. This is a collaboration among Sullivan, James Foster, & David Hillis (University of Texas, who received an additional \$55,527).
- 2010 – Accomplished Alumnus Award, Department of Biology, University of Vermont.
- 2008 – NIH Centers of Biomedical Research Excellence (COBRE) (PI: Larry Forney); \$9,800,000 total, Sullivan is one of 9 participating faculty; February, 2008 – January 2013; *Center for Research on Evolutionary Processes*. This is an IBEST grant (see Synergistic Activities).
- 2007 – NSF Systematic Biology & Biodiversity Inventories DEB-0717426. \$200,000. August 2007-July 2011. *Collaborative Research: A Comprehensive Multigene Phylogeny of Chipmunks (Rodentia: Tamias): Testing Divergence with Gene Flow*. UofI is the lead institution, and collaborator John Demboski (Denver Museum of Natural Science) also received \$200,000 for his activities on the same project.
- 2006 – NSF Microbial Genome Sequencing. \$360,000. November 2006 – October 2008. *The Genetic Diversity of Broad Host-Range Plasmids in Prokaryotes*. (Eva Top, PI)
- 2005 – Idaho State Board of Education. Center for Research on Invasive Species and Small Populations; \$102,200. April 2006 – March 2008. *Temporal and spatial patterns of genetic variation in small populations of plants and animals found in one of Idaho's major biodiversity hotspots*.
- 2003 – Idaho Department of Fish & Game State Wildlife Conservation Grant; \$5,000. June 2003 - August 2003. *Population survey of Idaho giant salamanders (Dicamptodon aterrimus)*.
- 2002 – NSF/EPSCoR REU Fellowship for Jeremiah Degenhardt; \$2,250.
- 2002 – NIH Centers of Biomedical Research Excellence (COBRE) (PI: Larry Forney); \$10,200,000 total, Sullivan is one of 9 participating faculty; February, 2002 – January, 2007; *Center for Research on Evolutionary Processes*. This is an IBEST grant (see Synergistic Activities).
- 2001 – Alumni Award for Faculty Excellence, University of Idaho Alumni Association.
- 2000 – NSF EPSCoR EPS-0080935 (PI: James A. Foster); \$499,993 total, Sullivan is one of four Project Directors; August 2000 – July 2003. *Multidisciplinary studies in bioinformatics and evolutionary studies*. This is an IBEST grant (see Synergistic Activities).
- 1999 – NSF Systematic Biology Panel DEB-9974124; \$128,976; August 1999 – July, 2003. *Testing iterative search strategies for maximum-likelihood estimation of phylogeny from DNA sequence data*. Co-PI, David L. Swofford.
- 1999 – NSF EPSCoR EPS-9720634; \$120,000; February 1999 - June 2001. *Comparative phylogeography of northern Rocky Mountain conifer-dwelling rodents*.
- 1998 – University of Idaho Research Council Seed Grant; \$6,000; July 1998 - June 1999. *Molecular Systematics and Population Genetics of Red-tailed Chipmunks (Tamias ruficaudus): An Initial Assessment of Genetic Structure in Northern Rocky Mountain Forest-dwelling Species*.
- 1996 – Smithsonian Institution Molecular Evolution Post Doctoral Fellowship; \$36,500; January, 1996 - July, 1997. *Sampling Properties of Model Parameters in Phylogenetic Analyses of DNA Sequence Data*.
- 1995 – Outstanding Student Presenter. American Society of Mammalogists.
- 1994 – Edwin V. Gant Award for Excellence in Graduate Studies; \$1,500; University wide competition in academic performance, professional potential, service, and integrity.
- 1994 – Award for Excellence in Graduate Student Teaching, Department of Ecology and Evolutionary Biology, University of Connecticut.
- 1993 – Graduate Research Traineeship in the Evolution, Ecology, and Conservation of

Biodiversity; \$14,000; NSF sponsored fellowship, awarded through the EEB Department, University of Connecticut.

1993 – University of Connecticut Research Foundation Grant; \$10,000; January- December, 1993. Among-site rate variation and phylogenetic analyses of DNA sequence data in sigmodontine rodents.

Synergistic Activities

Past President, Society of Systematic Biologists. 2013

President, Society of Systematic Biologists. 2012

President-elect, Society of Systematic Biologists. 2011

Editor-elect and Editor-in-Chief, *Systematic Biology*. 2007-2010.

Founding member of IBEST (**Initiative for Bioinformatics and Evolutionary Studies**), a collaboration among University of Idaho biologists, computer scientists, and mathematicians designed to foster interdisciplinary research in bioinformatics and evolution. This effort includes a team-taught seminar course, development and administration of a computational biology facility, and acquisition of center-based grants (see Grants and Awards).

Founder and Organizer of PEES (**Palouse Ecology, Evolution and Systematics**), a group of biologists from the University of Idaho and Washington State University. The primary function of this group is to meet one evening a month for a talk on members' research. This group was initiated to provide faculty and graduate students from five departments at the two universities with an intellectually invigorating environment and to provide a forum to present research at various stages of completion.

Graduate Students Supervised

Andrew Rankin (BCB)	PhD Student	Due to graduate May 2021
Meagan Ruffley (BCB)	PhD Student	Due to graduate May 2020
Genevieve Metzger (BCB)	PhD Student	Due to graduate December 2016
Brice Sarver (Biol)	PhD	Graduated May 2014
Jason Evans (BCB)	PhD	Graduated December 2009
Jennifer Ripplinger (BCB)	PhD	Graduated December 2009
Sarah Hird (Biol)	MS	Graduated June 2008
Noah Reid (Biol)	MS	Graduated August 2008
Jessica Hoisington (FWR)	MS	Graduated December 2007
Bryan C. Carstens (Biol)	PhD	Graduated December 2004
Jeffrey M. Good (Biol)	MS	Graduated May 2002
Marilyn M. Nielson (FWR)	MS	Graduated December 2000
Daniel J. Harris (Biol)	PhD Student	Deceased

Graduate Committees (Asterisks indicate students whom have finished)

Zaid Abdo*	University of Idaho, Bioinformatics & Computational Biology
Patryce Avsharian*	University of Idaho, Department of Biological Sciences
Kerry Barnowe-Meyer*	University of Idaho, Department of Biological Sciences
Justin Bohling*	University of Idaho, Department of Fish & Wildlife Resources
Frances Bonier*	University of Idaho, Department of Biological Sciences
Celeste Brown*	University of Idaho, Department of Mathematics and Statistics
Amie-June Brumble*	University of Idaho, Department of Forest Resources
Daniel Caetano	University of Idaho, Department of Biological Sciences
Matthew Carling*	University of Idaho, Department of Biological Sciences
Christine Cegelski*	University of Idaho, Department of Fish & Wildlife Resources

Isaac Erikson*	University of Idaho, Department of Biological Sciences
Ryan Garrick*	La Trobe University (Australia), School of Molecular Sciences
Ian Gilman	University of Idaho, Department of Biological Sciences
Andrew Giordano*	Washington State University, School of Biological Sciences
William Godsoe*	University of Idaho, Department of Biological Sciences
Robert Grahn*	University of Idaho, Department of Biological Sciences
Travis Hagey*	University of Idaho, Department of Biological Sciences
James Harper*	University of Idaho, Department of Biological Sciences
Sarah Jacobs	University of Idaho, Department of Biological Sciences
Hanna Marx	University of Idaho, Bioinformatics & Computational Biology
Craig Miller*	University of Idaho, Department of Fish & Wildlife Resources
Terry Miller*	University of Idaho, Department of Forest Resources
Diego Morales-Briones	University of Idaho, Department of Biological Sciences
Austin Patton	Washington State University, School of Biological Sciences
Matthew Pennell *	University of Idaho, Department of Biological Sciences
Kimberly Peppin*	University of Idaho, Department of Biological Sciences
Matthew Rain*	University of Idaho, Department of Biological Sciences
Darin Rokyta*	University of Idaho, Bioinformatics & Computational Biology
Diya Sen*	University of Idaho, Bioinformatics & Computational Biology
Katherine Shine*	University of Idaho, Department of Biological Sciences
Steven Spears*	Washington State University, School of Biological Sciences
Craig Steele*	Washington State University, School of Biological Sciences
Todd Steury*	University of Idaho, Department of Fish & Wildlife Resources
Angela Streit*	Washington State University, School of Biological Sciences
Smitha Surakanti*	University of Idaho, Bioinformatics & Computational Biology
Simon Uribe-Convers*	University of Idaho, Department of Biological Sciences
Chris Winchell*	Washington State University, School of Biological Sciences
Jeremy Yoder*	University of Idaho, Department of Biological Sciences
Li Zheng*	University of Idaho, Department of Mathematics and Statistics

Undergraduate Research Supervised

Kyle Grunwald	2015 – 2016	
Elizabeth Musser	2015 – 2016	
William Gentry	2015 – 2016	
Lauren Goss	2015 – 2016	
Lauren Blenn	2014 – 2015	
Jacob Brigham	2014 – 2105	
Jessica Giffords	2014 – 2015	
Audra Borden	2013 – 2014	
Mitchel Parsons	2012 – 2013	
Nick Forshee	2011 – 2012	IF&G Conservation Officer
Tara Potter	2006 – 2007	Dental School
Javan Bauder	2004 – 2006	MS program ISU
Jeremiah Degenhardt (REU Fellowship)	2002 – 2005	PhD program, Cornell
Angela Stevenson	2002 – 2004	PhD program, Cornell
Karina Villa-Romero	2003 – 2004	Technician, WSU
Stacey M. Gregory	1998 – 2001	Technician, U. Idaho
Jeffrey M. Good	1998 – 1999	Asst. Professor, U. Montana

Postdoctoral Fellows Supervised

Dr. Anahí Espíndola May, 2012 – Present
Dr. Chris Drummond April, 2006 – June, 2008: CRISSP Postdoc
Dr. Roland Fleißner September, 2003 – August, 2005: IBEST Postdoc
Dr. Kari Segraves August, 2003 – July, 2005: NSF Interdisciplinary Informatics Postdoc
Dr. John R. Demboski August, 1999 – July, 2001

Professional Societies

American Society of Mammalogists
Society for Molecular Biology and Evolution
Society for the Study of Evolution
Society of Systematic Biologists

Intramural Service

Research Council, College of Science Representative, 2013 – present.
College of Science Faculty Council, 2012 - present.
University Faculty Appeals Hearing Board, 2013 – present.
Research Oversight Team, Institute of Bioinformatics and Evolutionary Studies, 2012 – 2015.
Chair, Departmental Curriculum Committee, 2015.
Departmental Graduate Affairs Committee, 2013 – 2015.
Departmental Curriculum Committee, 2011 – 2014.
Chair, Departmental Tenure Review Committee for Dr. David Tank, 2013.
Chair, Departmental Promotion Review Committee for Dr. Scott Nuismer, 2012.
Chair, Departmental Tenure Review Committee for Dr. Luke Harmon, 2011.
Chair, Departmental 3rd Year Review Committee for Dr. Erica Bree Rosenblum, 2009.
Chair, Departmental 3rd Year Review Committee for Dr. Luke Harmon, 2008.
University Budget and Finance Committee, 2008 – 2009.
College of Science Representative to Faculty Senate, 2007 – 2009.
Institutional Animal Care and Use Committee, 2006 – 2009.
Chair, Departmental Graduate Affairs Committee, 2002 – 2009.
Herbarium Task Force, 2006 – 2007.
College of Science Representative to the Graduate Council, 2003 – 2006.
Vice Chair, Arboretum Advisory Board, 2002 – 2006.
University Promotions Review Committee, AY 2004/2005.
College of Science Promotion & Tenure Committee, 2003.
Arboretum Advisory Board, 2000 – 2002.
Departmental Strategic Planning Committee, 1999 – 2002.
Departmental Search Committees (10)
IBEST Search Committees (2)

Extramural Service

Past President, Society of Systematic Biologists, 2013.
Chair, Publications Committee, Society of Systematic Biologists 2011-2014.
President, Society of Systematic Biologists, 2012.
Review Panel, PLoS -Tree of Life, 2010 – 2111.
President-Elect, Society of Systematic Biologists, 2011.
Editor-in-Chief, *Systematic Biology*, 2008-2010.
Editor-Elect, *Systematic Biology* 2007.
Elected to Governing Council, Society of Systematic Biologists, 2005-2008.

Ernst Mayer Award Judge, Society of Systematic Biologists, 2005.
External Member of Search Committee, WSU Animal Molecular Phylogeny Position, 2003.
Nominating Committee: Society of Systematic Biologists, 2003.
Associate Editor: *Systematic Biology*, 2001-2006.
Editorial Board: *Systematic Biology*, 1996-2000.
NSF Panelist: 2001, 2003, 2008, 2012, 2013, 2014, 2015, 2016
External Peer Review for Promotion and Tenure (Louisiana State University, University of Connecticut, University of Kansas, Humboldt State University, Portland State University, Southern Illinois State University, Texas A&M University, University of California-Berkeley, University of California-Los-Angeles, University of Kansas, University of Memphis, University of Wisconsin, University of Alabama).

Reviewer for:

American Zoologist
Annals Entomological Society of America
Bioinformatics
BioTechniques
Biological Journal of the Linnean Society
Biological Conservation
BMC-Evolutionary Biology
Evolution
Copeia
Italian Journal of Zoology
Journal of Biogeography
Journal of Heredity
Journal of Mammalian Evolution
Journal of Mammalogy
Journal of Molecular Evolution
Mammalian Genome
Molecular Biology and Evolution
Molecular Ecology
Molecular Phylogenetics and Evolution
National Science Foundation
PLoS Evolutionary Biology
Proceedings of the National Academy of Sciences
Science
Statistical Applications in Genetics and Molecular Biology
Systematic Biology
Transactions in Computational Biology and Bioinformatics
Trends in Ecology and Evolution
The American Naturalist
Zoologica Scripta