

Joseph Thorley

SENIOR COMPUTATIONAL BIOLOGIST

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Background

- Registered Professional Biologist with College of Applied Biology, British Columbia.
- Maintains over 14 R packages on the Comprehensive R Archive Network.

Education

1994 BSc in Biological Sciences Oxford
2000 PhD in Theoretical Phylogenetics Bristol

Career

2002 Fisheries Biologist Scottish Exec.
2005 Fisheries Biologist Independent
2007 Fish Population Biologist Poisson Consulting
2017 Computational Biologist Poisson Consulting

Key Publications

1. Thorley, JL and RDM Page (May 2000). RadCon: phylogenetic tree comparison and consensus. *Bioinformatics* **16**(5), 486–487.
2. Stefanni, S and JL Thorley (Sept. 2003). Mitochondrial DNA phylogeography reveals the existence of an Evolutionarily Significant Unit of the sand goby *Pomatoschistus minutus* in the Adriatic (Eastern Mediterranean). *Molecular Phylogenetics and Evolution* **28**(3), 601–609.
3. Youngson, AF, IA Malcolm, JL Thorley, PJ Bacon, and C Soulsby (Dec. 2004). Long-residence groundwater effects on incubating salmonid eggs: low hyporheic oxygen impairs embryo development. *Canadian Journal of Fisheries and Aquatic Sciences* **61**(12), 2278–2287.
4. Wilkinson, M, J Cotton, C Creevey, O Eulenstein, S Harris, FJ Lapointe, C Levasseur, J Mcinerney, D Pisani, and J Thorley (June 2005). The Shape of Supertrees to Come: Tree Shape Related Properties of Fourteen Supertree Methods. *Systematic Biology* **54**(3), 419–431.
5. Thorley, JL, AF Youngson, and R Laughton (2007). Seasonal variation in rod recapture rates indicates differential exploitation of Atlantic salmon, *Salmo salar*, stock components. *Fisheries Management and Ecology* **14**(3), 191–198.
6. Youngson, AF, SB Piertney, JL Thorley, IA Malcolm, and C Soulsby (Mar. 2011). Spatial association of nest construction by brown trout *Salmo trutta*. *Journal of Fish Biology* **78**(3), 713–725.
7. Irvine, RL, JL Thorley, R Westcott, D Schmidt, and D DeRosa (Aug. 2015). Why Do Fish Strand? An Analysis of Ten Year of Flow Reduction Data from the Columbia and Kootenay Rivers, Canada. *River Research and Applications* **31**, 1242–1250.
8. Thorne, A, AI MacDonald, and JL Thorley (Nov. 2016). The abundance of large, piscivorous Ferox Trout (*Salmo trutta*) in Loch Rannoch, Scotland. *PeerJ* **4**, e2646.
9. Thorley, JL and GF Andrusak (Jan. 2017). The fishing and natural mortality of large, piscivorous Bull Trout and Rainbow Trout in Kootenay Lake, British Columbia (2008–2013). *PeerJ* **5**, e2874.
10. Ramey, RR, JL Thorley, and AS Ivey (Aug. 2018). Local and population-level responses of Greater sage-grouse to oil and gas development and climatic variation in Wyoming. *PeerJ* **6**, e5417.
11. Thorley, J and C Schwarz (Nov. 2018). ssdtools: An R package to fit Species Sensitivity Distributions. *Journal of Open Source Software* **3**(31), 1082.
12. Lee, LC, J Thorley, J Watson, M Reid, and AK Salomon (Oct. 2018). Diverse knowledge systems reveal social-ecological dynamics that inform species conservation status. *Conservation Letters*, e12613.