Jorrit H. Poelen

Independent Biodiversity Informatics/ Software Engineer
Research Scholar
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Education

2000 **MSc.** Experimental Physics, University of Groningen, the Netherlands

Employment

2020-Present	**Research Scholar** Ronin Institute for Independent Scholarship, Montclair, NJ
2008-Present	**Freelance Software Engineer** Berkeley/Oakland, CA
2012-2013	**Assistant Director** Translational Informatics Program, UCSF
2011-2012	**Software Engineer** Pandora Media Inc., Oakland, CA
2010-2011	**Software Engineer** Xoom Inc., San Francisco, CA
2006-2008	**Software Engineer/ Team Lead** GE Healthcare, Barrington, IL
2002-2006	**Software Engineer** GE Healthcare Zeist, the Netherlands
2001-2002	**Software Engineer** Tekadence Inc., San Francisco, CA
1999-2001	**Research Associate** School of Optometry, UC Berkeley

Publications

Google Scholar: goo.gl/dwyv7P

Refereed Journal Articles

2020 Elliott, M. J., **Jorrit H. Poelen**, and Fortes, J. A. (2020). Toward reliable biodiversity dataset references. *Ecological Informatics*, 59:101132

Gallagher, R. V., Falster, D. S., Maitner, B. S., Salguero-Gómez, R., Vandvik, V., Pearse, W. D., Schneider, F. D., Kattge, J., **Jorrit H. Poelen**, Madin, J. S., Ankenbrand, M. J., Penone, C., Feng, X., Adams, V. M., Alroy, J., Andrew, S. C., Balk, M. A., Bland, L. M., Boyle, B. L., Bravo-Avila, C. H., Brennan, I., Carthey, A. J. R., Catullo, R., Cavazos, B. R., Conde, D. A., Chown, S. L., Fadrique, B., Gibb, H., Halbritter, A. H., Hammock, J., Hogan, J. A., Holewa, H., Hope, M., Iversen, C. M., Jochum, M., Kearney, M., Keller, A., Mabee, P., Manning, P., McCormack, L., Michaletz, S. T., Park, D. S., Perez, T. M., Pineda-Munoz, S., Ray, C. A., Rossetto, M., Sauquet, H., Sparrow, B., Spasojevic, M. J., Telford, R. J., Tobias, J. A., Violle, C., Walls, R., Weiss, K. C. B., Westoby, M., Wright, I. J., and Enquist, B. J. (2020). Open science principles for accelerating trait-based science across the tree of life. *Nature Ecology & Evolution*, 4(3):294–303

2019	Grss, A., Palomares, M. L., **Jorrit H. Poelen**, Barile, J. R., Aldemita, C. D., Ortiz, S. R., Barrier, N., Shin, Y.-J., Simons, J., and Pauly, D. (2019). Building bridges between global information systems on marine organisms and ecosystem models. *Ecological Modelling*, 398:1 – 19
	Hayden, B., Palomares, M. L. D., Smith, B. E., and **J. H. Poelen** (2019). Biological and environmental drivers of trophic ecology in marine fishes - a global perspective. *Scientific Reports*, 9(1)
2018	Thessen, A. E., **Jorrit H. Poelen**, Collins, M., and Hammock, J. (2018). 20 GB in 10 minutes: a case for linking major biodiversity databases using an open socio-technical infrastructure and a pragmatic, cross-institutional collaboration. *PeerJ Computer Science*, 4:e164
	Hardisty, A. R., Michener, W. K., Agosti, D., Garca, E. A., Bastin, L., Belbin, L., Bowser, A., Buttigieg, P. L., Canhos, D. A., Egloff, W., Giovanni, R. D., Figueira, R., Groom, Q., Guralnick, R. P., Hobern, D., Hugo, W., Koureas, D., Ji, L., Los, W., Manuel, J., Manset, D., **Jorrit H. Poelen**, Saarenmaa, H., Schigel, D., Uhlir, P. F., and Kissling, W. D. (2019). The bari manifesto: An interoperability framework for essential biodiversity variables. *Ecological Informatics*, 49:22 – 31
2017	Pauli, J. N., Newsome, S. D., Cook, J. A., Harrod, C., Steffan, S. A., Baker, C. J. O., Ben-David, M., Bloom, D., Bowen, G. J., Cerling, T. E., Cicero, C., Cook, C., Dohm, M., Dharampal, P. S., Graves, G., Gropp, R., Hobson, K. A., Jordan, C., MacFadden, B., Pilaar Birch, S., **Poelen, J. H.**, Ratnasingham, S., Russell, L., Stricker, C. A., Uhen, M. D., Yarnes, C. T., and Hayden, B. (2017). Opinion: Why we need a centralized repository for isotopic data. *Proceedings of the National Academy of Sciences*, 114(12):2997–3001
2014	**Poelen, J. H.**, Simons, J. D., and Mungall, C. J. (2014). Global Biotic Interactions: An open infrastructure to share and analyze species-interaction datasets. *Ecological Informatics*, 24:148–159
2013	Simons, J. D., Yuan, M., Carollo, C., Vega-Cendejas, M., Shirley, T., Palomares, M. L., Roopnarine, P., Arenas, L. G. A., Ibañez, A., Holmes, J., Schoonard, C. M., Hertog, R., Reed, D., and **J. H. Poelen** (2013). Building a fisheries trophic interaction database for management and modeling research in the gulf of mexico large marine ecosystem. *Bulletin of Marine Science*, 89(1):135–160

Conference Proceedings

2019	**Poelen, Jorrit H** (2019). To connect is to preserve: on frugal data integration and preservation solutions. *Society for Preservation of Natural History Collections Annual Conference*

2018   **J. H. Poelen** (2018). Elton and nomer: two frugal tools to mobilize biodiversity data. *Digital Data in Biodiversity Research Conference*

Kuhn, T., Meroo-Peuela, A., Malic, A., **J. H. Poelen**, Hurlbert, A. H., Centeno Ortiz, E., Furlong, L. I., Queralt-Rosinach, N., Chichester, C., Banda, J. M., Willighagen, E., Ehrhart, F., Evelo, C., Malas, T. B., and Dumontier, M. (2018). Nanopublications: A growing resource of provenance-centric scientific linked data. In *2018 IEEE 14th International Conference on e-Science (e-Science)*, pages 83–92

2017   Collins, M., Nicolson, N., **J. H. Poelen**, Thompson, A., Hammock, J., and Thessen, A. (2017). Building your own big data analysis infrastructure for biodiversity science. *Proceedings of TDWG Annual Conference*, 1:e20161

J. H. Poelen (2017). Global biotic interactions: A catalyst for integrating existing interaction datasets, connecting data curators and developing data exchange methods. *Proceedings of TDWG Annual Conference*, 1:e20214

Simons, J. D. and **J. H. Poelen** (2017). Gomexsi: Using open platforms such as github, wordpress, and globi to manage, and share species interaction data. *Proceedings of TDWG Annual Conference*, 1:e20325

2016   **J. H. Poelen**, Schulz, K. S., and Hammock, J. (2016). Global biotic interactions: a case study in ecological data aggregation. *Proceedings of TDWG Annual Conference*

Hammock, J. and **J. H. Poelen** (2016). Fresh data: what's new and what's interesting? *Proceedings of TDWG Annual Conference*

2015   Collins, M., Thompson, A., and **J. H. Poelen** (2015). Whole-dataset analyses using apache spark. *Proceedings of TDWG Annual Conference*

2014   Simons, J. D., **J. H. Poelen**, Yuan, M., Vega-Cendejas, M. E., Carollo, C., Reed, D., and Ainsworth, C. H. (2014). Gulf of mexico species interactions (gomxsi): Integrated ecosystem trophic data for ecopath models and ecosystem based fisheries management. *Fisheries Centre Research Reports: Ecopath 30 Years Conference Proceedings Extended Abstracts*, 22(3)

Patents/ Awards/ Honors

2013   Encyclopedia of Life Rubenstein Fellowship award.

2006   **Poelen, J. H.**, Stramrood, J., Staring, W., and Hamster, A. (2006). System and method for optimizing throughput of medical evidence data to and from long term digital storage solutions. *US Patent Office*, US 2006/0269106A1

Invited Talks/ Workshops/ Meetings

2020	Global Biotic Interactions: Benefits of Pragmatic Re-use of Species Interaction Datasets, Leibniz Institute for Zoo and Wildlife Research Berlin, January 2020
2019	Global Names and Biodiverity Heritage Library Workshop, University of Illinois at Urbana-Champaign, June 2019
2018	GLOBIS-B Workshop on Essential Biodiversity Variables and Species Interactions, Bari, Italy, February 2018
2016	Practical Hacking On Identifiers at BiOSphere2 (PHOIBOS2), Biosphere2, Oracle, Arizona, February 2016
2015	Unleashing Species Interaction Data, Berkeley Institute for Data Sciencs, UC Berkeley, February 2015
2014	NESCent-EOL-BHL Research Sprint, NESCent, Durham, NC, February 2014
	Open Tree of Life Hack-a-thon, University of Michigan, Ann Arbor, MI, September 2014

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