Jorrit H. Poelen

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Education

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

Employment

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

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

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

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 (gomexsi): 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)

Pre-prints

2018   Thessen, A. E., **Poelen, J. H.**, 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 Preprints*, 6:e26951v1

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

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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