**ASU Biodiversity Data Science Workshop**

*November 28, 2018*

Decision Theater, Orchid House at the Brickyard, Tempe, AZ 85281

**Discovering biodiversity data signals from natural history collections**

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**Abstract:** This presentation will illustrate how digitized, networked biodiversity data from natural history collections can be discovered and visualized to foster an understanding of data availability and suitability of data-driven analysis and decision making. The focus is on Arizona and on data and services produced by Arizona State University's Natural History Collections. The presentation will demonstrate how ASU's biocollections are currently discoverable through a series of public portals sustained by the Symbiota software platform - a popular, open source, ASU-developed information management system that offers a broad range of biodiversity data research and learning opportunities (<https://doi.org/10.3897/BDJ.2.e1114)>. The examples will hopefully stimulate discussions about integrating collections-based data with the overall workshop theme and its different components.

* Google: "How many insect species are there in Arizona?"
  + Refinement: "How many cicada species are there in Arizona?"
* Go instead to: <http://scan-bugs.org/portal/>
  + Regular Collections search for Cicadidae / Arizona
  + Explore Species – according to various taxonomic perspectives
  + What about just ASUHIC?
  + What about all Insecta species for Arizona? ~ 17,000 available records..
* Another perspective: Visualize ant species diversity in the Chiricahua Mountains via Map Search
* Another perspective