

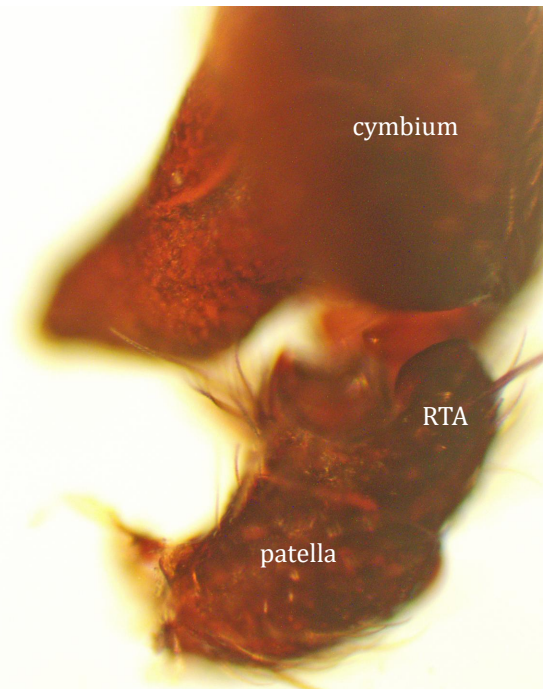
## A new addition to the jumping spider fauna of Kansas (Araneae: Salticidae: Marpissina: *Marpissa bina*)

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Since the recent publication of a checklist of Kansas jumping spiders that documented 82 species from the state, a new addition to the fauna has been uncovered in material collected by Glenn Salsbury in Bourbon County (Guarisco and Cutler 2023). An adult male *Marpissa bina* (Hentz 1846) was collected in a prairie sweep sample at Elm Creek Lake on June 3, 2018 (Figure 1).



**Figure 1.** Retrolateral view of left pedipalp, ♂ *Marpissa bina*, Elm Creek Lake, Bourbon County, Kansas.

The range of this species in the most recent revisions of the genus *Marpissa* C.L. Koch 1846 includes Florida, Georgia, South Carolina, and North Carolina (Barnes 1958; Logunov 1999). This range also corresponds with that listed in Richman et al. (2011). Unfortunately, this species has often been confused with a congener, *Marpissa formosa* (Banks 1892). Therefore, records of *M. bina* well outside its documented range are suspect.

The inclusion of *M. bina* in a Kansas spider list (Fitch (1963) was corrected in a later revision (Guarisco & Fitch 1995). Both species were included in the spiders from Meade County, Kansas (Fitch & Fitch 1966). Kaston (1948) listed *M. bina* in Connecticut, but in the revision (Kaston 1981), he included *M. formosa* with no further comment on the validity of the *M. bina* records. Parker (1969) listed *M. bina* [as *Hycitia bina*] in Indiana, noting that the specimen was determined by Wilton Ivie who considered *M. formosa* (as *Icius formosus*) a synonym of *M. bina*. A checklist of the spiders of the Great Lakes States listed *M. bina* in Illinois, Wisconsin, and Michigan, with its probable occurrence in Ohio and Indiana (Sierwald et al. 2005).

However, a current list of Ohio spiders does not include this species (Bradley 2023), and it is not in the list of the jumping spiders of the Cincinnati region (Oehler 1980). It is not known from Missouri (Stirnman et al. 1998), Arkansas (Robison et al. 2021), or Texas (Dean 2016), although the Global Biodiversity Information Facility (GBIF) lists specimens and verified observations from Texas, Mexico, and the upper mid-west. Based on recent records posted on iNaturalist (2024), this species has only been recorded from Florida, Georgia and South Carolina.

Therefore, the discovery of *M. bina* in southeastern Kansas was unexpected. This discovery extends the known distribution of this species from the extreme southeastern United States into the central mid-west. Careful re-examination of specimens from the Great Lakes States, Texas, and Mexico should be undertaken to verify their identity.

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