**Paul Kenneth Masonick**

Department of Entomology, University of California, Riverside

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**Nationality:** American (USA)

**EDUCATION .**

**Ph.D.**  Entomology, University of California, Riverside, USA 2020

Dissertation: *Systematics and natural history of flower-associated assassin bugs (Hemiptera: Reduviidae: Phymatinae, Harpactorinae)*

**B.Sc.** Integrative Biology,University of Illinois Urbana-Champaign (UIUC), USA 2007

**RESEARCH EXPERIENCE .**

2022–Present Postdoctoral Researcher, University of California, Riverside, USA, Weirauch Lab

 Phylogenomics of Reduviidae: Combined morphological and molecular analysis.

2021–2022 Postdoctoral Researcher, University of Konstanz, Germany, Meyer Lab

Phylogenomics of cichlid fishes: Variant calling with whole-genome resequencing data, species tree reconstruction, analysis of introgression and admixture, GWAS.

2014–2020 Ph.D., UC Riverside, USA, Weirauch Lab

Hemipteran systematics and natural history: Targeted field work, specimen dissection, specimen data management and curation, species delimitation, geometric morphometrics, insect rearing, behavioral studies, gut metabarcoding, DNA extraction, PCR, next-generation sequencing, bioinformatics, and molecular phylogenetics.

2007–2008 National Science Foundation Research Experience for Undergraduates, UIUC, USA, Whitfield Lab

Diversity and host-specificity of parasitoid wasps: Field collection, morphological study, DNA barcoding.

2007 Introductory Research Student, UIUC, USA, Hanks Lab

Mating behavior and displacement tactics of locust borers: Behavioral study and care-taking.

**PUBLICATIONS .**

**Masonick, P.**, and Weirauch, C. 2022. Taxonomic revision of the *Apiomerus maya* species group (Heteroptera:

Reduviidae: Harpactorinae) *Zootaxa* **5154**(5). [10.11646/zootaxa.5154.5.3](https://doi.org/10.11646/zootaxa.5154.5.3)

**Masonick, P.**, Meyer, A., and Hulsey, C.D. 2022. Phylogenomic analyses show repeated evolution of

hypertrophied lips among Lake Malawi cichlid fishes, *Genome Biology and Evolution* **14**(4). [10.1093/gbe/evac051](https://d.docs.live.net/1d2f0a8cb9832275/Documents/CV/10.1093/gbe/evac051)

Mullens, B., Trout Fryxell, R., **Masonick, P.**, Yanega, D., and Davis, T. 2022. Hiding in plain sight: an abundant

and widespread North American horse fly (Diptera: Tabanidae) in the *Tabanus sulcifrons* group, *Tabanus variegatus* Fabricius, redescribed. *Journal of Medical Entomology* **59**(4):1217–1235. [10.1093/jme/tjac057](https://doi.org/10.1093/jme/tjac057)

Scherz, M.D., **Masonick, P.**, Meyer, A., and Hulsey, C.D. 2022. Between a Rock and a Hard Polytomy:

Phylogenomics of the Rock-Dwelling Mbuna Cichlids of Lake Malawi, *Systematic Biology* **71**(3):741–757. [10.1093/sysbio/syac006](https://doi.org/10.1093/sysbio/syac006)

**Masonick, P.** and Weirauch, C. 2020. Taxonomic revision of the Nearctic erosa species group of *Phymata*

Latreille, 1802 (Heteroptera: Reduviidae: Phymatinae), *Canadian Journal of Arthropod Identification* **41**. [10.3752/cjai.2020.41](https://doi.org/10.3752/cjai.2020.41)

**Masonick, P.**, and Weirauch, C. 2020. Integrative species delimitation in Nearctic ambush bugs

(Heteroptera: Reduviidae: Phymatinae): insights from molecules, geometric morphometrics and ecological associations. *Systematic Entomology* **45**:205–223. [10.1111/syen.12388](https://doi.org/10.1111/syen.12388)

Hernandez, M., **Masonick, P**., and Weirauch, C. 2019. Crowdsourced online images provide insights into

predator-prey interactions of putative natural enemies, *Food Webs* **21**. [10.1016/j.fooweb.2019.e00126](https://doi.org/10.1016/j.fooweb.2019.e00126)

**Masonick, P.** 2019. Description of a bizarre new genus and species of ambush bugs from the

Dominican Republic (Heteroptera: Reduviidae: Phymatinae). *Insect Systematics and Diversity* **3**(4). [10.1093/isd/ixz010](https://doi.org/10.1093/isd/ixz010)

**Masonick, P.**, Hernandez, M., and Weirauch, C. 2019. No guts, no glory: gut content metabarcoding

unveils the diet of a flower‐associated coastal sage scrub predator. *Ecosphere* **10**(5). [10.1002/ecs2.2712](https://doi.org/10.1002/ecs2.2712)

**Masonick, P.**, Michael, A., Frankenberg, S., Rabitsch, W., and Weirauch, C. 2017. Molecular

phylogenetics and biogeography of the ambush bugs (Hemiptera: Reduviidae: Phymatinae). *Molecular Phylogenetics and Evolution* **114**:225–233. [10.1016/j.ympev.2017.06.010](https://doi.org/10.1016/j.ympev.2017.06.010)

Whitfield, J., Rodriguez,J., and **Masonick, P.** 2009. Reared microgastrine wasps

(Hymenoptera: Braconidae) from Yanayacu Biological Station and environs (Napo Province, Ecuador): diversity and host specialization*. Journal of Insect Science* **9**(31):1–22. [10.1673/031.009.3101](https://doi.org/10.1673/031.009.3101)

**PRESENTATIONS & POSTERS .**

**Masonick, P.**, Meyer, A., and Hulsey, C.D. 2022. Phylogenomic analyses show repeated evolution of hypertrophied lips

among Lake Malawi cichlid fishes. Genomics of Convergence Symposium 2022 (Virtual Presenter)

**Masonick, P.**, Meyer, A., and Hulsey, C.D. 2021. Phylogenomics and the evolution of hypertrophied lips in Lake

Malawi cichlid fishes. Evolution 2021 (Virtual Conference)

**Masonick, P.**, Meyer, A., and Hulsey, C.D. 2021. Phylogenomics of Lake Malawi cichlids. Deutsche

Forschungsgemeinschaft SPP-1991 Taxon-omics Annual Meeting (Virtual Conference)

**Masonick, P.**, and Weirauch, C. 2019. [POSTER] Integrative species delimitation in Nearctic ambush

bugs (Heteroptera: Reduviidae): insights from geometric morphometrics, molecules, and ecological associations. XXXVIII Annual Meeting of the Willi Hennig Society, University of California, Berkeley, CA

**Masonick, P.**, and Weirauch, C. 2018. Integrative species delimitation in Nearctic ambush bugs

(Heteroptera: Reduviidae): insights from geometric morphometrics, molecules, and ecological associations. VI Quadrennial International Heteropterists' Society Meeting, La Plata, Argentina

**Masonick, P.**, Hernandez, M., and Weirauch, C. 2017. No guts, no glory: revealing the diet of flower-

associated assassin bugs (Hemiptera: Reduviidae). Entomology Society of America Annual Meeting 2017, Denver, CO

**Masonick, P.**, and Weirauch, C. 2016. Pollinator predators exposed: using molecules and

morphometrics to delimit species boundaries of ambush bugs (Heteroptera: Reduviidae). ICE 2016 XXV International Congress of Entomology, Orlando, FL

**Masonick, P.**, and Weirauch, C. 2015. Exposing the ambush bugs: defining species boundaries

among a continuum of morphological features and color patterns (Hemiptera: Reduviidae). Entomology Society of America Annual Meeting 2015, Minneapolis, MN

**Masonick, P.**, and Weirauch, C. 2015. Exposing the ambush bugs: an overview of taxonomic issues

within Phymatinae (Hemiptera: Reduviidae). Hemipteroid Insect Phylogenetics Workshop, University of Illinois, Urbana-Champaign, IL

**Masonick, P.**, and Weirauch, C. 2014. [POSTER] Classification Conundrum: species boundaries and

relationships of ambush bugs (Hemiptera: Reduviidae). Entomology Society of America Annual Meeting 2014, Portland, OR

**AWARDS & FELLOWSHIPS .**

2022 Hector Foundation Best Early Career Researcher Presentation; Genomics of Convergence Symposium, **€400**

2019 Robert & Peggy van den Bosch Scholarship: Center for Biol. Control, UC Berkeley, **$15,000**

2019 Earle C. Anthony Graduate Student Travel Award, **$1,500**

2018 Nils and Annemarie Møller Andersen Travel Award, International Heteropterists’ Society, **$500**

2018 Robert & Peggy van den Bosch Scholarship: Center for Biol. Control, UC Berkeley, **$7,500**

2018 James and Margaret Lesley Annual Prize, **$300**

2017 Robert & Peggy van den Bosch Scholarship: Center for Biol. Control, UC Berkeley, **$7,500**

2017 Herbert Kraft Scholarship: UC Riverside College of Natural and Agricultural Sciences, **$4,615**

2017 UC MEXUS Small Grant, **$1,480**

2016 Shipley-Skinner Reserve - Riverside County Endowment, **$11,615**

2015 Friends of the Entomology Research Museum (FERM) Grant: UC Riverside, **$750**

2014 **Honorable Mention**: National Science Foundation Graduate Research Fellowship Program

**ORGANIZATIONAL MEMBERSHIPS .**

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2021–Present Society of Systematic Biologists

2018–Present International Heteropterists’ Society

2014–Present Entomological Society of America: SysEB Section, Pacific Branch

2014–Present Friends of the Entomology Research Museum, UC Riverside

**TEACHING EXPERIENCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2022 Spring Heteroptera Short Course, University of California, Riverside, Instructor

2021 Spring Vertiefungskurs 2021 in Molecular Evolutionary Biology at the University of Konstanz. Lectures:

“Molecular Markers and Species Concepts” + “Phylogenetic Reconstruction and the Multispecies Coalescent”

2018 Fall Introduction to Entomology (ENTM100), T.A. for Prof.: Thomas Perring

2018 Winter Systematics (BIOL112), T.A. for Profs: John Heraty & Mark Springer

2017 Spring Natural History of Insects (ENTM010), T.A. for Prof.: Erin Rankin

2016 Fall Introduction to Ecology & Evolution (BIOL5C), T.A. for Profs: Kurt Anderson & Joseph Morse

2016 Winter Insect Biodiversity (ENTM107), T.A. for Prof.: Christiane Weirauch

**INTERNSHIPS .**

2014 Research Intern, Field Museum of Natural History, Chicago, IL, Moreau Lab

2013 Habitat Restoration Crew Supervisor, Audubon-Chicago Region, Evanston, IL