

## Sean Chien, M.S.

College Station, Texas

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### EDUCATION

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<b>Ph.D.</b>	Texas A&M University—College Station, Texas Biology <i>PI:</i> Heath Blackmon	2022 – Present
<b>M.S.</b>	Eastern Illinois University—Charleston, Illinois Biological Sciences <i>Chair:</i> Zhiwei Liu	2020 – 2022
<b>B.S.</b>	Tunghai University—Taichung, Taiwan Animal Science	2013 – 2017

### PUBLICATIONS

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**Sean Chien**, Jen-Pan Huang, Heath Blackmon, Chromosome-level reference genome of an endemic, endangered long-armed scarab (*Cheirotonus formosanus*): discovery of a putative Y-linked scaffold and demographic history. Manuscript under review at *Molecular Ecology Resources*.

**Sean Chien**, Heath Blackmon. Chromosomal Rearrangements: Tempo and Mode of Karyotype Evolution in Scarabaeoidea. Manuscript under revision for resubmission to *Journal of Evolutionary Biology*.

Terrence Sylvester, Zachary Hoover, Carl E Hjelman, Michelle M Jonika, Leslie T Blackmon, James M Alfieri, J Spencer Johnston, **Sean Chien**, Tahmineh Esfandani, Heath Blackmon, A reference quality genome assembly for the jewel scarab *Chrysina gloriosa*, *G3 Genes | Genomes | Genetics*, Volume 14, Issue 6, June 2024, jkae084, <https://doi.org/10.1093/g3journal/jkae084>

### FELLOWSHIPS & AWARDS

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ROOT & SHOOT Travel Award	\$3,000	2026
Research and Presentation Travel Award	\$1,000	2025
Mark and Nancy Deyrup Visiting Scholars	\$4,400	2024
SSB Graduate Student Research Award	\$3,000	2023

### RESEARCH EXPERIENCE

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<b>Research Assistant</b>	2022 – Present
Department of Biology, Texas A&M University PI: Heath Blackmon	
- Developed and implemented custom scripts in R, Python, or Bash to extract meaningful biological insights from the database	
- Designed and executed fieldwork experiments, including sample collection for <i>de novo</i> genome assemblies and population genomic projects	
- Performed DNA and RNA extractions, including high molecular weight DNA extractions	
- Acquiring grants to secure project funding and ensure financial support for initiatives	
<b>Research Assistant</b>	2020 – 2022
Department of Biological Sciences, Eastern Illinois University Advisor: Zhiwei Liu	
- Designed and conducted a study to understand the relationship between beetle diversity and forest management in central Illinois	
- Developed skills related to experimental design, data collecting, and data analysis	

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- Collected and analyzed field data
- Submitted a manuscript about the study findings

### TEACHING EXPERIENCE

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<b>Teaching Assistant</b>		<b><i>Texas A&amp;M University</i></b>
Medical Narratives	Biology Undergraduate Program	Spring, 2025 – Present
Critical Writing in Biology	Biology Undergraduate Program	Fall, 2024
Experimental Design	Biology Graduate Program	Fall, 2023 – Spring, 2024
Introductory Biology I&II	Lower Division Instruction Program	Fall, 2022 – Spring, 2023
<b>Teaching Assistant</b>		<b><i>Eastern Illinois University</i></b>
Ecology and Evolution	Department of Biological Sciences	Spring, 2022
General Biology	Department of Biological Sciences	Fall, 2021
Systematics	Department of Biological Sciences	Spring, 2021

### FELLOWSHIPS & AWARDS

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BioGSA Engagement Scholarship	2025
Biology Art Contest – 3 <sup>rd</sup> Place	2025
SRW Oral Presentation – 1 <sup>st</sup> Place	2025
NATEA-Dallas Scholarship Honorable Mentions	2023
Distinguished International Student Award, Eastern Illinois University	2022
Distinguished International Student Award, Eastern Illinois University	2021
International Student Scholarship, Eastern Illinois University	2020

### PRESENTATION

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Evolution(Talk)	2025
Southeast Texas Evolutionary Genetics and Genomics (Talk)	2025
Entomological Interdisciplinary Research Symposium (Talk)	2025
Ecological Integration Symposium (Talk)	2025
Texas Genetics Society (Talk)	2025
Student Research Week (Talk) – 1 <sup>st</sup> Place	2025
Student/Postdoc Research Conference (Poster)	2025
Ecological Integration Symposium (Poster)	2024
Student Research Week (Poster)	2024
Student/Postdoc Research Conference (Poster)	2024
Texas Genetics Society (Poster)	2024
Evolution (Poster)	2023

### SERVICE & OUTREACH

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Faculty search graduate student committee	2025
Open Source for Open Science workshop	2025
Ecological Intergration Symposium	2024
Darwin day	2024
R workshop (TGS)	2024
R workshop (TAMU Biology Department)	2024

### PEER REVIEW

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*Genome* \* 2 , 2024  
*Genome Biology and Evolution*, 2024

### MENTORING

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PhD student 2024  
PhD student 2023

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**PROFESSIONAL ASSOCIATION**

American Society of Naturalists	2024
Society of Systematic Biologists	2024
Society of Study of Evolution	2023
Texas Genetics Society	2023

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**REFERENCES**

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