

CURRICULUM VITAE

Aaron Harp Griffing, Ph.D.

NSF Postdoctoral Fellow, Princeton University
 Research Associate, Milwaukee Public Museum

PROFESSIONAL APPOINTMENTS

- 2023–Present **NSF Postdoctoral Research Fellow**, Princeton University, Princeton, NJ USA
 Advisors: Dr. Celeste M. Nelson, Dr. Ricardo Mallarino
- 2022–2023 **Postdoctoral Associate**, Princeton University, Princeton, NJ USA
 Advisors: Dr. Celeste M. Nelson, Dr. Ricardo Mallarino
- 2022–Present **Research Associate**, Milwaukee Public Museum, Milwaukee, WI USA

EDUCATION

- 2016–2022 **Ph.D. Biological Sciences**, Marquette University, Milwaukee, WI USA
 Advisor: Dr. Tony Gamble
- 2014–2016 **M.S. Biology**, Villanova University, Villanova, PA USA
 Advisor: Dr. Aaron M. Bauer
- 2010–2014 **B.A. Biology**, Hartwick College, Oneonta, NY USA
 Advisor: Dr. Stanley K. Sessions

FELLOWSHIPS, ASSISTANTSHIPS, AND GRANTS

- 2022 National Science Foundation Postdoctoral Research Fellowship in Biology (PRFB)
 Award: DBI 2209090 PI: Griffing AH
 Title: *NSF Postdoctoral Fellowship in Biology: Uncovering the genomic and developmental basis of gliding structure evolution in gecko lizards*
- 2021 Rev. John P. Raynor S.J. Fellowship
- 2020 Marquette University Biological Sciences Fellowship
- 2019 Johnson's Wax Summer Research Fellowship, Marquette University
- 2019 Richard W. Jobling Distinguished Research Assistantship, Marquette University
- 2019 Conference Attendance Grant, *Gans Collections and Charitable Fund*
- 2019 E.E. Williams Research Grant Award, *The Herpetologists' League*
- 2019 Emerging Models Grant, *Society for Developmental Biology*
- 2018 Grant in Herpetology, *Society for the Study of Amphibians and Reptiles*
- 2018 RC Lewontin Graduate Research Excellence Grant, *Society for the Study of Evolution*
- 2018 Grants in Aid of Research, *Society for Integrative and Comparative Biology*
- 2016 Graduate Assistance in Areas of National Need (GAANN) Fellowship, Marquette University

- 2016 Conference Attendance Grant, *Gans Collections and Charitable Fund*
- 2016 Biology Summer Research Fellowship, *Villanova University*
- 2015 Biology Summer Research Fellowship, *Villanova University*
- 2015 Graduate Student Summer Research Fellowship, *Villanova University*
- 2014 Teaching Assistantship, *Villanova University*
- 2010 Oyaron Hill Scholarship, *Hartwick College (declined)*
- 2010 National Science Foundation S-STEM Biotechnology Scholarship, *Hartwick College*

AWARDS AND HONORS

- 2020 Oliver H. Smith Academic Achievement Award, *Marquette University*
- 2019 Best Student Paper 2017–2018, *Herpetological Association of Africa*
- 2019 Graduate Student Research Travel Award, *Marquette University*
- 2019 Biological Sciences Graduate Student Travel Award, *Marquette University*
- 2017 Forward Thinking Poster Session Jumpstart Award, *Marquette University*
- 2016 Honorable mention of Henri Seibert Award (physiology & morphology), *JMIH 2016*
- 2016 Graduate Studies Travel Award 2017 fiscal year, *Villanova University*
- 2015 Victor Hutchison Student Poster Competition Award (evolution, genetics, & systematics), *Society for the Study of Amphibians and Reptiles*
- 2015 Graduate Studies Travel Award 2016 fiscal year, *Villanova University*
- 2015 SSAR Registration Award, *Gans Collections and Charitable Fund*
- 2014 Hartwick College Beta Beta Beta Award, *Hartwick College*

PEER-REVIEWED PUBLICATIONS (19 TOTAL)

*mentored student

Published

19. **Griffing AH**, Keating SE, Pinto BJ, Nielsen SV, Gamble T. 2023. Clarifying a male color morph of *Sphaerodactylus macrolepis* Günther, 1859 and resolving taxonomic confusion on Saint Croix. *Zootaxa* 5343:273–280.
18. Bauer AM, **Griffing AH**, Dujsebayaeva TN, *Davis Z, Russell AP. 2023. Morphology of cutaneous sense organs of gekkonid geckos: Structural variation in the most diverse gekkotan family. *Breviora* 576:1–28.
17. Hantak MM, Guralnick RP, Cameron AC, **Griffing AH**, Harrington SM, Weinell JL, Paluh DJ. 2022. Colour scales with climate in North American ratsnakes: A test of the thermal melanism hypothesis using community science images. *Biology Letters* 18:20220403.

16. **Griffing AH**, Gamble T, Bauer AM, Russell AP. 2022. Ontogeny of the paraphalanges and derived phalanges of *Hemidactylus turcicus* (Squamata: Gekkonidae). *Journal of Anatomy* 241:1039–1053.
15. Beurg M, Gamble T, **Griffing AH**, Fettiplace R. 2022. Atypical tuning and amplification mechanisms in gecko auditory hair cells. *Proceedings of the National Academy of Sciences* 119:e2122501119.
14. **Griffing AH**, Griffing DH, Lesmond S, Gamble T. 2022. Establishment of the Common House Gecko, *Hemidactylus frenatus* Duméril & Bibron, on Saint Lucia. *Caribbean Herpetology* 83:1–3.
13. **Griffing AH**, Gamble T, Cohn MJ, Sanger TJ. 2022. Convergent developmental patterns underlie the repeated evolution of adhesive toe pads among lizards. *Biological Journal of the Linnean Society* 135:518–532.
12. Hardy B, **Griffing AH**, Pinto BJ. 2021. Clinical signs of pathogenic fungal infection in *Coluber constrictor foxii* (Colubridae, Squamata) in Illinois, USA. *Herpetology Notes* 14:1101–1103.
11. **Griffing AH**, Sanger TJ, Epperlein L, Bauer AM, Cobos A, Higham TE, Naylor E, Gamble T. 2021. And thereby hangs a tail: Morphology, developmental patterns, and biomechanics of the adhesive tails of crested geckos (*Correlophus ciliatus*). *Proceedings of the Royal Society B: Biological Sciences* 288:20210650.
10. Keating SE, **Griffing AH**, Nielsen SV, Scantlebury D, Gamble T. 2020. Conserved ZZ/ZW sex chromosomes in Caribbean croaking geckos (*Aristelliger*: Sphaerodactylidae). *Journal of Evolutionary Biology* 33:1316–1326.
9. **Griffing AH**, Gamble T, Bauer AM. 2020. Distinct patterns of pigment development underlie convergent hyperpigmentation between nocturnal and diurnal geckos (Squamata: Gekkonidae). *BMC Evolutionary Biology* 20:40.
8. Parolari A, Paul K, **Griffing A**, Condit R, Perez R, Aguilar S, Schnitzer S. 2020. Liana abundance and diversity increase with rainfall seasonality along a precipitation gradient in Panama. *Ecography* 43:25–33.
7. **Griffing AH**, Sanger TJ, Daza JD, Nielsen SV, Pinto BJ, Stanley EL, Gamble T. 2019. Embryonic development of a parthenogenetic vertebrate, the mourning gecko (*Lepidodactylus lugubris*). *Developmental Dynamics* 248:1070–1090.
6. DeBoer JC, **Griffing AH**, Iyengar VK, Bauer AM. 2018. New dietary records for croaking lizards of the genus *Aristelliger* (Reptilia: Sphaerodactylidae). *Caribbean Herpetology* 62:1–8.
5. **Griffing AH**, Sanger TJ, *Matamoros IC, Nielsen SV, Gamble T. 2018. Protocols for husbandry and embryo collection of a parthenogenetic gecko, *Lepidodactylus lugubris* (Squamata: Gekkonidae). *Herpetological Review* 49:230–235.
4. **Griffing AH**, Daza JD, DeBoer JC, Bauer AM. 2018. Developmental osteology of the parafrontal bones of the Sphaerodactylidae. *The Anatomical Record* 301:581–606.
3. Paluh DJ, **Griffing AH**, Bauer AM. 2017. Sheddable armour: Identification of osteoderms in the integument of *Geckolepis maculata* (Gekkota). *African Journal of Herpetology* 66:12–24.
Winner of HAA Best Student Paper 2017–2018.
2. **Griffing AH**, Bowerman J, Sessions SK. 2017. Histology reveals testicular oocytes and trematode cysts in the threatened Oregon spotted frog (*Rana pretiosa*). *Northwestern Naturalist* 98:24–32.

1. Bernstein JM, **Griffing AH**, Daza JD, Gamble T, Bauer AM. 2016. Using alien resources: Caribbean dwarf geckos nesting communally in invasive flora. *Reptiles & Amphibians* 23:40–43.

Coming Soon

Griffing AH, Daza JD, Nielsen SV, Werneck FP, Viana PF, Gamble T. Toe pad morphology and adhesion in the miniaturized gecko, *Chatogekko amazonicus* (Gekkota: Sphaerodactylidae). *The Anatomical Record*: in revision.

*Petty AP, Gamble T, **Griffing AH**. Notes on patagium morphology in the parachuting gecko, *Hemidactylus platyurus*. *Journal of Herpetology*: In revision.

Griffing AH, Stanley EL, Paluh DJ. Notes on preovipositional embryonic development in the legless lizard, *Lialis burtonis* (Gekkota: Pygopodidae). *The Anatomical Record*: In revision.

Griffing AH, Gamble T, *Behere A, Higham TE, Keller GM, Sanger TJ. Developmental patterns underlying the variation in form and function exhibited by the toe pads of house geckos (*Hemidactylus*). *Integrative & Comparative Biology*: Submitted.

NON-REFEREED PUBLICATIONS (5 TOTAL)

5. **Griffing AH**, Gamble T, Heinicke MP, Brown JC, Siler CD. 2021. *Trimeresurus flavomaculatus* (Philippine Pit Viper). Maximum Body Length. *Herpetological Review* 52:437.
4. **Griffing AH**, Gamble T, Heinicke MP, Brown JC, Siler CD. 2019. *Lycodon alcalai* (Alcala's wolf snake). Diet. *Herpetological Review* 50:595.
3. **Griffing AH**, DeBoer JC, Campbell PD, Wilson BS, Bauer AM. 2017. *Aristelliger praesignis* (Jamaican croaking lizard). Maximum Size. *Herpetological Review* 48:184–185.
2. **Griffing AH**, López-Torres AL, Landestoy MA, Daza JD, Bauer AM. 2016. *Aristelliger lar* (spotted Caribbean gecko). Communal daytime retreat behavior. *Herpetological Review* 47:293–294.
1. **Griffing AH**, Bauer AM. 2016. *Hemidactylus mabouia* (wood slave). Geographic Distribution. *Herpetological Review* 47:80–81.

INVITED SEMINARS AND PRESENTATIONS (7 TOTAL)

- 2023 Departamento de Biología Research Seminar, *Universidad del Rosario*.
- 2023 Biology Department Seminar, *Rutgers University, Camden*.
- 2023 Philadelphia Area Herpetology Group, *Villanova University*.
- 2022 Philadelphia Area Herpetology Group, *Villanova University*.
- 2022 Biology and Bioinformatics Departmental Seminar, *Loyola University Chicago*.
- 2021 Biology Departmental Seminar, *East Carolina University*.
- 2019 Herpetological Society Seminar, *Cornell University*.

CONTRIBUTED CONFERENCE PRESENTATIONS (LEAD PRESENTER, 20 TOTAL)

- 2024 Invited Talk. *Society for Integrative and Comparative Biology (SICB) 2024*. Seattle, Washington, USA.
- 2023 Invited Talk. *Camp 2023 — 100 years of Camp's Classification of the Lizards*. American Museum of Natural History, New York, USA.
- 2023 Talk. *13th International Congress of Vertebrate Morphology*. Cairns, Queensland, Australia.
- 2023 Poster. *13th International Congress of Vertebrate Morphology*. Cairns, Queensland, Australia.
- 2023 Talk. *Evolution 2023*. Albuquerque, New Mexico, USA.
- 2023 Poster. *Evolution 2023*. Albuquerque, New Mexico, USA
- 2023 Poster. *Society for Developmental Biology, Mid-Atlantic Meeting*. Princeton, New Jersey, USA.
- 2022 Talk. *Evolution 2022*. Cleveland, Ohio, USA.
- 2021 Virtual Poster. *Society for Developmental Biology 2021*, Virtual Conference.
- 2021 Virtual Talk. *Society for Integrative and Comparative Biology 2021*. Virtual Conference.
- 2019 Poster. *Marquette University Celebration of Research*. Milwaukee, Wisconsin, USA.
- 2019 Talk. *12th International Congress of Vertebrate Morphology*. Prague, Czech Republic.
- 2019 Poster. *Evolution 2019*. Providence, Rhode Island, USA.
- 2018 Talk. *Joint Meeting of Ichthyologists and Herpetologists 2018*. Rochester, New York, USA.
- 2017 Poster. *Marquette University Forward Thinking Poster Session*, Milwaukee, Wisconsin, USA.
Winner of Marquette University Forward Thinking Jumpstart Award.
- 2017 Poster. *Evolution 2017*. Portland, Oregon, USA.
- 2016 Talk. *Joint Meetings of Ichthyologists and Herpetologists 2016*. New Orleans, Louisiana, USA.
Honorable mention for Henri Seibert Award.
- 2016 Talk. *11th International Congress of Vertebrate Morphology*. Washington, DC, USA.
- 2015 Poster. *Society for the Study of Amphibians and Reptiles 2015*. Lawrence, Kansas, USA.
Winner of the Victor Hutchison Student Poster Award.
- 2014 Poster. *Experimental Biology 2014*. San Diego, California, USA.

TEACHING EXPERIENCE

- 2023 **Guest Lecturer:** Lizard embryology: Studying and visualizing morphology, evolution, and development. Massachusetts College of Art and Design.
- 2022 **Co-Director of Off-Campus Field Study:** Geology and Natural History of the Caribbean (GEOL 275). Off-campus study abroad course for 14 undergraduate students (Hartwick College) in Saint Lucia co-directed with Dr. David Griffing (Hartwick College).
- 2018 **Guest Lecturer:** Co-evolution: how species adapt to each other. Marquette University.
- 2018 **Teaching Assistant:** Evolutionary Biology (BIOL 3404), Marquette University, 3 sections/week.
- 2017 **Teaching Assistant:** Experimental Genetics (BIOL 3202), Marquette University, 2 sections/week.

- 2016 **Teaching Assistant:** Histology (BIO 3455), Villanova University, 2 sections/week.
- 2015 **Guest Lecturer:** Evo-devo: an integrative approach to organismal biology. Villanova University.
- 2015 **Teaching Assistant:** Developmental Biology (BIO 4285), Villanova University, 1 section/week.
- 2015 **Teaching Assistant:** Endocrinology (BIO 4251), Villanova University, 1 section/week.
- 2015 **Teaching Assistant:** Marine Biology (BIO 3485), Villanova University, 1 section/week.
- 2015 **Teaching Assistant:** General Biology II (BIO 2106), Villanova University, 2 sections/week.
- 2014 **Teaching Assistant:** General Biology I (BIO 2105), Villanova University, 2 sections/week.

PROFESSIONAL EXPERIENCE AND SERVICE

Fieldwork conducted in the following locations:

Caribbean and Central America: Saint Lucia (2022); Saint Croix, US Virgin Islands (2021); Grand Cayman, Cayman Islands (2019); Jamaica (2016); Great Inagua, Bahamas (2015); Costa Rica (2014); San Salvador, Bahamas (2013)

Continental USA: Wisconsin (2020); New York (2014, 2013)

Southeast Asia: Babuyan Islands, Philippines (2018)

Journal Reviewer for the following (16) journals:

African Journal of Herpetology; The Anatomical Record; BMC Zoology; Caribbean Herpetology; Food Webs; Frontiers in Ecology and Evolution; The Herpetological Journal; Herpetological Monographs; Herpetology Notes; Integrative Organismal Biology; Journal of Experimental Zoology – B: Molecular and Developmental Evolution; Journal of Anatomy; Journal of Herpetology; Journal of Morphology; Phyllomedusa; South American Journal of Herpetology

2014–present **Princeton Molecular Biology Postdoc Committee Member**

2022–present **Section Editor** for *Reptiles & Amphibians*

2018–2019 **SSAR Twitter Content Contributor**

2018–2023 **SSAR Membership Committee Member**

2013 **Hartwick College Biology Department Summer Technician**

2011–2014 **Hartwick College Amphibian Research Lab Summer Research Assistant**

MENTORING

Graduate Student/Postdoc Laboratory Mentor for the following (18) undergraduate/postbacc. Students:

2024–present Nora Shefferman (Princeton U.): research, gliding gecko evo-devo

2023–present Aria Lupo (Princeton U.): research, lung evo-devo

2021–2022 Amber Petty (Marquette U. postbacc): research, gliding gecko anatomy

- 2021 Yaidelise Neris (Marquette U.): research, gecko embryology
- 2021 Maddie Clark (Marquette U.): lizard husbandry and care
- 2020–2022 Natalie Allen (Marquette U.): lizard husbandry and care
- 2020–2022 Blake Gamble (Marquette U.): lizard husbandry and care
- 2019–2021 Grant Nickolson (Marquette U.): lizard husbandry and care
- 2019–2020 Will Lam (Marquette U.): lizard husbandry and care
- 2019 Faustina Jones (Marquette U.): research, gecko evo-devo
- 2018–2019 Amelia Zietlow (NSF REU student; Carthage College): research, gecko evo-devo
- 2017–2021 Lauren Vivian (Marquette U.): lizard husbandry and care
- 2017–2020 Ellie Rogers (Marquette U.): lizard husbandry and care
- 2017–2018 Marley Borham (Marquette U.): lizard husbandry and care
- 2017 C. James McMurray (NSF REU student; Sam Houston S.U.): research, tail regeneration
- 2016–2019 Nicholas Schneider (Marquette U.): lizard husbandry and care
- 2016–2019 Itzel Matamoros (Marquette U.): lizard husbandry and care
- 2015–2016 Zachary Davis (Villanova U.): research, gecko mechanoreceptors

Graduate student mentor and resource to first-generation undergraduate STEM students (HOPR1953H), Fall 2020, advisor: Dr. Anita Manogaran, Marquette University

OUTREACH

- 2022 Soundtracks to Science, e2, Dr. Aaron Griffing – Gecko evolution and heavy metal. Link: www.soundtrackstoscience.buzzsprout.com/2066019/11818646-2-dr-aaron-griffing
- 2022 “Making the Fancy Feet of Anoles and Geckos” online article hosted by Anole Annals Link: www.anoleannals.org/2022/02/01/making-the-fancy-feet-of-anoles-and-geckos/
- 2021–2022 Founder and coordinator of “Skills for Early Career Researchers” seminars for MU Biology graduate students
- 2021 Milwaukee Public Museum Sixth Annual BioBlitz, Wehr Nature Center, Franklin, WI
- 2021 Curiosity e103, Lizards (w/ Aaron Griffing). Link: <https://www.ascienceshow.com/citations/episode-103>
- 2020 “Introduction to the Reptiles & Amphibians of the Bay Area” Presentation to grades 6–8, Sacred Heart Schools, Atherton (Atherton, California)
- 2020 Curiosity e70: Capsaicin (w/ Aaron Griffing). Link: www.ascienceshow.com/citations/episode-70
- 2019 Curiosity e23: A Brief History of Evolution (w/ Aaron Griffing). Link: www.ascienceshow.com/citations/episode-23

- 2018 Milwaukee Public Museum Fourth Annual BioBlitz, Lake Farm County Park, Madison, WI
- 2017 Milwaukee Public Museum Third Annual BioBlitz, Fox River Park, Waukesha, WI
- 2015 Willistown Conservation Trust BioBlitz, Rushton Woods Preserve, Malvern, PA
- 2012 Discussion Panel: What is the Value of Scientific Research in a Liberal Arts Undergraduate Education? 5th Annual Student Scholar Showcase, Hartwick College, Oneonta, NY.