tgiarla@siena.edu | www.tomgiarla.com | Google Scholar Page

EDUCATION AND EMPLOYMENT

EDUCATION

2013	Ph.D., University of Minnesota (Ecology, Evolution, and Behavior) – Minneapolis, MN
2007	B.A., magna cum laude, Washington University (Biology) – St. Louis, MO

PROFESSIONAL APPOINTMENTS

2021-Present	Associate Professor, Siena College – Loudonville, NY
2021-Present	Research Associate, American Museum of Natural History – New York, NY
2015-2021	Assistant Professor, Siena College – Loudonville, NY
2013-2015	Postdoctoral Fellow, Louisiana State University – Baton Rouge, LA
2013	Visiting Instructor, St. Olaf College – Northfield, MN

RESEARCH

PEER-REVIEWED PUBLICATIONS

2022	Nations JA, TC GIARLA, MA Morni, J William Dee, MT Swanson, AE Hiller, FAA Kahn, JA Esselstyn.
	Molecular data from the holotype of the enigmatic Bornean Black Shrew, Suncus ater Medway,
	1965 (Soricidae, Crocidurinae), place it in the genus <i>Palawanosorex</i> . Zookeys 1137: 17–31. [DOI]
2022^{1}	Lopatto D et al. (including TC GIARLA). Student Attitudes Contribute to the Effectiveness of a Genomics
	CURE. Journal of Microbiology & Biology Education 23: e00208–21. [DOI]
2022^{2}	Marsh CJ et al. (including TC GIARLA). Expert range maps of global mammal distributions harmonised to
	three taxonomic authorities. <i>Journal of Biogeography</i> . 49: 979–992 [DOI]
2021	Esselstyn JA, AS Achmadi, H Handika, MT Swanson, TC GIARLA, & KC Rowe. Fourteen new, endemic
	species of shrew (genus Crocidura) from Sulawesi reveal a spectacular island radiation. Bulletin
	of the American Museum of Natural History 454: 1–108. [DOI]
2021	Voss RS, TC GIARLA, & SA Jansa. A revision of the didelphid marsupial genus Marmosa part 4. Species
	of the Alstoni Group (subgenus Micoureus). American Museum Novitates 3983: 1–31. [DOI]
2021	Kirchman JJ, NR McInerney, TC GIARLA, SL Olson, B Slikas, & RC Fleischer. Phylogeny based on ultra-
	conserved elements clarifies the evolution of rails and allies (Ralloidea) and is the basis for a
	revised classification. <i>Ornithology</i> [DOI]
2021	GIARLA TC, TC Demos, A Monadjem, R Hutterer, D Dalton, ML Mamba, EA Roff ³ , FM Mosher ¹ , V
	Mikeš, CP Kofron, & JC Kerbis Peterhans. Integrative taxonomy and phylogeography of <i>Colomys</i>
	and Nilopegamys (Rodentia: Murinae), semi-aquatic mice of Africa, with descriptions of two new
	species. Zoological Journal of the Linnean Society 192: 206–235. [DOI]
2021	Voss RS & TC GIARLA. A Revision of the didelphid marsupial genus <i>Marmosa</i> Part 3. A new species from
	western Amazonia, with redescriptions of M. perplexa Anthony, 1922, and M. germana Thomas,
	1904. American Museum Novitates 3969: 1–28. [DOI]
2020	Voss RS & TC GIARLA. Case 3831-Marmosa isthmica Goldman 1912 (Mammalia, Didelphimorphia,
	Didelphidae): Proposal to conserve current usage by suppressing its senior synonym, Marmosa
	regina Thomas, 1898. Bulletin of Zoological Nomenclature 77: 131–134. [DOI]
2020	GIARLA TC & RS Voss. On the Identity of Victoria's Mouse Opossum, <i>Marmosa regina</i> , Thomas, 1898.
	American Museum Novitates 3960: 1–16. [DOI]

¹ This article has 98 co-authors

² This article has 297 co-authors.

³ Siena College undergraduate student.

2020	Voss RS, TC GIARLA, JF Díaz-Nieto, & SA Jansa. A revision of the didelphid marsupial genus <i>Marmosa</i> part 2: Species of the Rapposa Group (subgenus <i>Micoureus</i>). <i>Bulletin of the American Museum of Natural History</i> 439: 1–62. [DOI]
2020	Voss RS & TC GIARLA. A Revision of <i>Philander</i> (Marsupialia: Didelphidae), Part 2: Phylogenetic relationships and morphological diagnosis of <i>P. nigratus</i> Thomas, 1923. <i>American Museum Novitates</i> 3955: 1–16. [DOI]
2020^4	Lopatto D et al. (including TC GIARLA). Facilitating growth through frustration: Using genomics research in a course-based undergraduate research experience. <i>Journal of Microbiology & Biology Education</i> 21: 21.1.6. [DOI]
2020	GIARLA TC & RS Voss. DNA Sequence data from the holotype of <i>Marmosa elegans coquimbensis</i> Tate, 1931 (Mammalia: Didelphidae) resolve its disputed relationships. <i>American Museum Novitates</i> 3946 1–8. [DOI]
2019	Esselstyn JA, AS Achmadi, H Handika, TC GIARLA , & KC Rowe. A new climbing shrew from Sulawesi highlights the tangled taxonomy of an endemic radiation. <i>Journal of Mammalogy</i> 100: 1713–1725. [DOI]
2018	GIARLA TC, SP Maher, AS Achmadi, MK Moore ⁵ , MT Swanson, KC Rowe, & JA Esselstyn. Isolation by marine barriers and climate explain areas of endemism in an island rodent. <i>Journal of Biogeography</i> 45: 2053–2066. [DOI]
2018	Hutterer R, DS Balete, TC GIARLA, LR Heaney, & JA Esselstyn. A new genus and species of shrew (Mammalia: Soricidae) from Palawan, Philippines. <i>Journal of Mammalogy</i> 99: 518–536. [DOI]
2018	Eldridge RA, AS Achmadi, TC GIARLA, KC Rowe, & JA Esselstyn. Geographic isolation and elevational gradients promote lineage diversification in an endemic shrew on Sulawesi, Indonesia. <i>Molecular Phylogenetics and Evolution</i> 118: 306–317. [DOI]
20176	Leung W, CD Shaffer, EJ Chen, TJ Quisenberry, K Ko, JM Braverman, TC GIARLA , SCR Elgin. Retrotransposons are the major contributors to the expansion of the <i>Drosophila ananassae</i> Muller F element. <i>G3: Genes, Genomes, Genetics</i> 7: 2439-2460. [DOI]
2016	Demos TC, AS Achmadi, TC GIARLA , H Handika, Maharadatunkamsi, KC Rowe, & JA Esselstyn. Local endemism and within-island diversification of shrews illustrate the importance of speciation in building Sundaland mammal diversity. <i>Molecular Ecology</i> 25: 5158–5173. [DOI]
2015	GIARLA TC & JA Esselstyn. The challenges of resolving a rapid, recent radiation: Empirical and simulated phylogenomics of Philippine shrews. <i>Systematic Biology</i> 64: 727–740. [DOI]
2015	GIARLA TC & SA Jansa. The impact of Quaternary climate oscillations on divergence times and historical population sizes in <i>Thylamys</i> opossums from the Andes. <i>Molecular Ecology</i> 24: 2495–2506. [DOI]
2015	Stanley WT, R Hutterer, TC GIARLA , & JA Esselstyn. Phylogeny, phylogeography, and geographic variation in the <i>Crocidura monax</i> (Soricidae) species complex from the montane islands of Tanzania, with descriptions of three new species. <i>Zoological Journal of the Linnean Society</i> 174: 185–215. [DOI]
2015 ⁷	Leung W et al. (including TC GIARLA). <i>Drosophila</i> Muller F elements maintain a distinct set of genomic properties over 40 million years of evolution. <i>G3: Genes, Genomes, Genetics</i> 5: 719–740. [DOI]
2014	GIARLA TC, & SA Jansa. The role of physical geography and habitat type in shaping the biogeographical history of a recent radiation of Neotropical marsupials (<i>Thylamys</i> : Didelphidae). <i>Journal of Biogeography</i> 41: 1547–1558. [DOI]
2014	GIARLA TC, RS Voss, & SA Jansa. Hidden diversity in the Andes: Comparison of species delimitation methods in montane marsupials. <i>Molecular Phylogenetics and Evolution</i> 70: 137-151. [DOI]

 ⁴ This paper from the Genomics Education Partnership has 103 co-authors.
 ⁵ Louisiana State University undergraduate student.
 ⁶ This paper from the Genomics Education Partnership has 276 co-authors. I was a member of the eight-person writing committee.
 ⁷ This paper from the Genomics Education Partnership has 1,015 co-authors.

2010	GIARLA TC, RS Voss, & SA Jansa. Species limits and phylogenetic relationships in the didelphid marsupial genus <i>Thylamys</i> based on mitochondrial DNA sequences and morphology. <i>Bulletin of the American Museum of Natural History</i> No. 346: 1–67. [DOI]	
2009	Jansa SA, TC GIARLA, & B Lim. The phylogenetic position of the rodent genus <i>Typhlomys</i> and the geographic origin of Muroidea. <i>Journal of Mammalogy</i> 90: 1083–1094. [DOI]	
	BOOK CHAPTERS	
2017	GIARLA TC. Family Platacanthomyidae. <i>Handbook of the Mammals of the World</i> (Vol. 7, Rodents: Part II). DE Wilson, TE Lacher, & RA Mittermeier (Eds.). Barcelona: Lynx.	
	GENOMICS MICROPUBLICATIONS	
2022	Laskowski LF, CA Kiser, R Huber, S Kusche ⁸ , AM Arsham, TC GIARLA , & CP Rele. 2022. <i>Drosophila simulans</i> —Ilp2. <i>Micropublication Biology</i> [DOI]	
	GRANTS AND AWARDS	
	Funded	
2023 2023 2020 2018 2016 2011–2013 2010 2009 2009 2009 2009 2008 2008 2008	Departmental Diversity Grant (\$5,000), Siena College CURCA Summer Scholars Award (\$6,112), Siena College CURCA Winter Scholars Award (\$2,302), Siena College CURCA Summer Scholars Award (\$3,205), Siena College Committee on Teaching & Faculty Development Grant (\$800), Siena College Doctoral Dissertation Improvement Grant (\$15,000), Division of Environmental Biology, NSF Dayton Research Award (\$600), Bell Museum of Natural History Travel Award (\$300), U. Minnesota Council of Graduate Students Travel Award (\$1,000), EEB Dept., U. Minnesota Thesis Research Grant (\$4,773), U. Minnesota Graduate School Graduate Research Award (\$1,221), Society of Systematic Biologists Dayton Research Award (\$1,500), Bell Museum of Natural History Student Research Award (\$1,500), American Society of Mammalogists Not Funded	
2020	Major Research Instrumentation (\$292,044; Co-PI), Office of Advanced Cyberinfrastructure, NSF	
2020	Inclusive Excellence Grant (\$1,000,000; PI), Howard Hughes Medical Institute	
FELLOWSHIPS AND HONORS		
2022 2018 2016 2011 2011 2010 2009 2007–2009	Siena College Award for Excellence, Siena College Committee on Teaching & Faculty Development Summer Fellowship, Siena College Committee on Teaching & Faculty Development Summer Fellowship, Siena College Doctoral Dissertation Fellowship, U. Minnesota President's Student Leadership and Service Award, U. Minnesota Elmer Birney Student Honorarium, American Society of Mammalogists Elmer Birney Summer Research Fellowship, U. Minnesota Graduate School Fellowship, U. Minnesota	

_

⁸ Siena college undergraduate student

INVITED PRESENTATIONS AND WORKSHOPS

2024 2018 2017 2016 2016	Genomics Education Partnership New England Regional Node Meeting: R Workshop (Jan. 5 th) California State University, Northridge: Biology Colloquium (Sept. 28 th) University of Virginia: Ecology and Evolutionary Biology Seminar Series (Oct. 24 th) Rensselaer Polytechnic Institute: Biology Department Seminar Series (Feb. 21 st) SUNY Albany: Ecology and Evolutionary Biology Seminar Series (March 25 th)
	CONFERENCE PRESENTATIONS
2024	GIARLA TC . Piloting the ZAD-ZNF Gene Family Evolution Project. Genomics Education Partnership New England Regional Node Meeting: Siena College, January 4–5.
2019	GIARLA TC, JC Kerbis Peterhans, & TC Demos. Phylogeography and taxonomy of the semi-aquatic African murine genera <i>Colomys</i> and <i>Nilopegamys</i> . American Soc. of Mammal. Conference: Washington DC, June 28–July 2.
2018	GIARLA TC, SP Maher, AS Achmadi, MK Moore, MT Swanson, KC Rowe, & JA Esselstyn. Isolation by marine barriers and climate explain areas of endemism in an island rodent. American Soc. of Mammal. Conference: Manhattan, KS, June 25–29.
2018	Mosher FM ⁹ , EA Roff ⁶ , TC Demos, JC Kerbis Peterhans, TC GIARLA . Phylogeography of the African Wading Rat, <i>Colomys goslingi</i> . American Soc. of Mammal. Conference: Manhattan, KS, June 25–29. <i>Poster Presentation</i> .
2016	GIARLA TC, R Hutterer, JC Kerbis Peterhans, & JA Esselstyn. Thousands of loci and hundreds of species: Phylogenomics of the white-toothed shrews. American Soc. of Mammal. Conference: Minneapolis, MN, June 24–28.
2016	Small K ⁶ , R Hutterer, JC Kerbis Peterhans, JA Esselstyn, & TC GIARLA. Comparing tree building approaches for a phylogenomic dataset with over 200 species. American Soc. of Mammal. Conference: Minneapolis, MN, June 24–28. Poster Presentation.
2016	Moolick KE ⁶ , JA Esselstyn, & TC GIARLA . Utility of whole mitochondrial genomes for species-level phylogenetics of <i>Maxomys</i> spiny rats. American Soc. of Mammal. Conference: Minneapolis, MN, June 24–28. <i>Poster Presentation</i> .
2015	GIARLA TC & JA Esselstyn. The challenges of resolving a rapid, recent radiation: Empirical and simulated phylogenomics of Philippine shrews. American Soc. of Mammal. Conference: Jacksonville, FL, June 12–16.
2014	GIARLA TC & JA Esselstyn. Phylogenomics and biogeography of a rapid radiation of crocidurine shrews across the Philippines. Evolution Conference: Raleigh, NC, June 20–24.
2013	GIARLA TC & SA Jansa. Multilocus phylogeography and phylogenetics of <i>Thylamys</i> mouse opossums: The impact of Pleistocene glacial cycles on Andean taxa. Evolution Conference: Snowbird, UT, June 21–25.
2013	GIARLA TC & SA Jansa. Multilocus phylogeography and phylogenetics of <i>Thylamys</i> mouse opossums: The impact of Pleistocene glacial cycles on Andean taxa. American Soc. of Mammal. Conference: Philadelphia, PA, June 14–18.
2012	GIARLA TC Hidden diversity in the Andes: Phylogeography of cryptic speciation in montane marsupials. Evolution Conference: Ottawa, ON, Canada, July 6–12.
2012	GIARLA TC Hidden diversity in the Andes: Phylogeography of cryptic speciation in montane marsupials. American Soc. of Mammal. Conference: Reno, NV, June 22–26.
2010	GIARLA TC, RS Voss, & SA Jansa. Systematics of the marsupial genus <i>Thylamys</i> : Examining biogeographic patterns in the open habitats of central and southern South America. Evolution Conference: Portland, OR, June 25–29.

⁹ Siena College undergraduate student.

_

2010	GIARLA TC, RS Voss, & SA Jansa. Systematics of the marsupial genus <i>Thylamys</i> : Examining	
	biogeographic patterns in the open habitats of central and southern South America. American Soc.	
	of Mammal. Conference: Laramie, WY, June 11–15.	
2009	GIARLA TC, RS Voss, & SA Jansa. Systematics and historical biogeography of <i>Thylamys</i>	

GIARLA TC, RS Voss, & SA Jansa. Systematics and historical biogeography of *Thylamys* (Didelphimorphia: Didelphidae). 10th International Mammalogical Congress: Mendoza, Argentina, August 9–14.

TEACHING AND MENTORSHIP EXPERIENCE

TEACHING EXPERIENCE

- Biology of the Vertebrates (Spring 2016, 2017, 2018, 2019, 2020; Fall 2022, 2023)
- Community Development Capstone I and II (Fall 2019, Spring 2020)
- Ecology (Fall 2015, 2016, 2017, 2018, 2019, 2020; Spring 2021, 2022, 2023, 2024)
- General Biology I (Fall 2016, 2022)
- Genomics and Bioinformatics (Spring 2017, 2019, 2021; Fall 2023)
- Honors Thesis I and II (Spring 2019)
- Research and Writing Skills for Biologists (Spring 2018)
- Evolution and Diversity (Visiting Instructor at St. Olaf College, Spring 2013)

RESEARCH MENTORING

Siena College

	2023–2024	Rileigh Baldwin, Caleb Casey, Amy Perry, and Kate Putnam (4 students)
	2023 (Summer)	Kate Putnam ¹³ and Amy Perry ¹³ (2 students)
	2022-2023	Tommy Anderson, Amy Perry, Kate Putnam, Michelle Tram, Delana Cochrane (5 students)
	2021-2022	Shania Reid, Skyler Opromolla (2 students)
	2020-2021	Kyra Griffin ¹⁰ , Eman Khan, Aiyana MacIntyre (3 students)
	2019-2020	Kyra Griffin, Parneet Kaur, Eman Khan, Sean Kusche, Aiyana MacIntyre, Skyler Opromolla, Liliana
		Sanchez Adames ¹¹ , Greg Sileo (8 students)
	2018–2019	Elizabeth Allegretti, Mathew Dolinar, Francesca Gallo, Carissa Huber, Emily Marticello, Samerna Masih,
		Margot Pavlik, Karla Perez, Emily Roff ¹² , Gregory Sileo, Alexandria Sullivan, Ryan Weis, Dakota
		Wilkinson (13 students total; 7 co-advised with Rachel Sterne-Marr)
	2018 (Summer)	Emily Roff ¹³
	2017–2018	Francesca Gallo, Hannah Gregg, Nimra Komal, Samerna Masih, Frank Mosher, Jennifer Park, Emily Roff
		(7 students)
	2016–2017	Daniel Biljanoski, Naisla Defran, Chantalle Durr, Ashley Herkert, Nathan Natale, Kylie Small, Maria
		Valdez, Erica Weldin (8 students total; 4 co-advised with Rachel Sterne-Marr)
	2015–2016	Daniel Biljanoski Kelly Moolick, Kylie Small (3 students)
Previous Institutions		
	2014 2015	M M Clin I Cl M W II (2 (L)
	2014–2015	Meagan Moore, Chris Reglen, Chelsea Wallace (3 students)
	2008–2013	Courtney Comar, Tracy Smelter, Tim Sosa, Jordan Tysdale (4 students)

¹⁰ CURCA Winter Scholar

¹¹ Academic Community Engagement (ACE) and Bonner Program capstone student

¹² Honors thesis student

¹³ CURCA Summer Scholars

PROFESSIONAL DEVELOPMENT

CONFERENCES AND WORKSHOPS ATTENDED

2024	Genomics Education Partnership Regional Node Meeting: Loudonville, NY (Jan. 4–5)
2023	Genomics Education Partnership National Faculty Workshop: St. Louis, MO (June 5–10)
2022	Genomics Education Partnership Alumni Workshop: Online (June 1–3 & 7–10)
2021	Genomics Education Partnership Alumni Workshop: Online (June 7–13)
2020	Genomics Education Partnership Alumni Workshop: Online (June 8–12)
2019	American Society of Mammalogists Annual Meeting: Washington, DC (June 28–July 2)
2019	Genomics Education Partnership Regional Node Meeting: Bennington, VT (Jan. 17–18)
2018	American Society of Mammalogists Annual Meeting: Manhattan, KS (June 25–29)
2018	Genomics Education Partnership Alumni Workshop: St. Louis, MO (June 9–12)
2017	Genomics Education Partnership Alumni Workshop: St. Louis, MO (June 17–20)
2017	Society of Systematic Biologists Annual Meeting: Baton Rouge, LA (Jan. 7–10)
2016	American Society of Mammalogists Annual Meeting: Minneapolis, MN (June 24–28)
2016	Genomics Education Partnership New Member Training: St. Louis, MO (June 5–10)
2015	American Society of Mammalogists Annual Meeting: Jacksonville, FL (June 12–16)
2014	Evolution: Raleigh, NC (June 20–24)
2013	Evolution: Snowbird, UT (July 21–25)
2013	American Society of Mammalogists Annual Meeting: Philadelphia, PA (June 14–18)
2012	Evolution: Ottawa, Canada (July 6–12)
2012	American Society of Mammalogists Annual Meeting: Reno, NV (June 22–26)
2012	National Evolutionary Synthesis Center Next-Gen. Sequencing Workshop: Durham, NC (June 10–19)
2010	Evolution: Portland, OR (June 25–29)
2010	American Society of Mammalogists Annual Meeting: Laramie, WY (June 11–15)
2009	International Mammalogical Congress: Mendoza, Argentina (Aug. 9–14)
2008	Evolution: Minneapolis, MN (June 20–24)

SERVICE

INSTITUTIONAL SERVICE AT SIENA COLLEGE

Member, Sociology Assistant Professor Search Committee
Member, Shared Governance Task Force
Member, Core Advisory Committee
Member, Biology Department DEI Grant Writing Team
Member, Middle States Reaccreditation Self Study Steering Committee (Std. V Co-Lead)
Member, Associate Director of Institutional Effectiveness Search Committee
Director, HHMI Inclusive Excellence Grant Working Group
Member, Associate Director of Institutional Effectiveness Search Committee
Member, Sociology Teaching Assistant Professor Search Committee
Member, Biology Department Seminar Committee
Advisor, Biology Club
DAC Representative, President's Advisory Committee on Diversity and Inclusion (PACDI)
Discussion Leader, School of Science Diversity and Inclusion Workshop
School of Science Representative, Student Learning Assessment Committee (SLAC)
Assessment Coordinator, Biology Department
Member, Animal Physiologist Tenure-Track Search Committee
Member, Microbiology Visiting Professor Search Committee
Member, Diversity Action Committee (DAC)

PROFESSIONAL SERVICE

2024–Present	Founding Member, Genomics Education Partnership Non-Profit Board of Directors
2023-2024	Chair, Science and IT Committee, Genomics Education Partnership
2023	Master's Thesis Committee Member for Sara Velásquez Restrepo at EAFIT University (Colombia)
2023	Member, NIH IPERT Grant Writing Committee, Genomics Education Partnership
2022-2023	Vice Chair, Science and IT Committee, Genomics Education Partnership
2021-Present	Associate Editor, Journal of Mammalian Evolution
2016	Review Panel Member, National Science Foundation
2016-2023	Member, Human Diversity Committee, American Society of Mammalogists
2015-Present	Member, Grants-in-Aid Committee, American Society of Mammalogists
2016-2017	Member, Program Committee, American Society of Mammalogists
	0

COMMUNITY OUTREACH AND VOLUNTEER WORK

2014-2015	High School Research Mentor, EnvironMentors Program, LSU
2014-2015	Outreach Volunteer, LSU Museum of Natural Science
2009-2011	President, Teaching S.M.A.R.T., U. Minnesota
2008-2012	Coordinator and Volunteer, Teaching S.M.A.R.T., U. Minnesota
2008-2012	Guest Instructor, Bell Museum of Natural History

REVIEWER: JOURNAL ARTICLES AND BOOK CHAPTERS

A list of all verified peer reviews is available on my Web of Science Reviewer Page

- Biological Journal of the Linnean Society
- Bulletin of the American Museum of Natural History
- Ecography
- Heredity
- Journal of Biogeography
- Journal of Mammalogy
- Journal of Mammalian Evolution
- Journal of Natural History
- Journal of Fish Biology
- Journal of Zoological Systematics and Evolutionary Research

- Mammal Review
- Molecular Phylogenetics and Evolution
- New World Marsupials (two chapters)
- Organisms, Diversity, and Evolution
- PeerJ
- Systematic Biology
- Zoologica Scripta
- Zoological Journal of the Linnean Society
- Zoologischer Anzeiger
- Zootaxa

PROFESSIONAL MEMBERSHIPS

- American Society of Mammalogists
- Genomics Education Partnership (GEP)