

# Thomas C. Giarla, Ph.D.

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## 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

- 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. *Ornithology* [\[DOI\]](#)
- 2021      **GIARLA TC**, TC Demos, A Monadjem, R Hutterer, D Dalton, ML Mamba, EA Roff<sup>1</sup>, FM Mosher<sup>1</sup>, V Mikeš, CP Kofron, & JC Kerbis Peterhans. Integrative taxonomy and phylogeography of *Colomys* 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 *Marmosa* Part 3. A new species from western Amazonia, with redescrptions 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, *Marmosa regina*, Thomas, 1898. *American Museum Novitates* 3960: 1–16. [\[DOI\]](#)
- 2020      Voss RS, **TC GIARLA**, JF Díaz-Nieto, & SA Jansa. A revision of the didelphid marsupial genus *Marmosa* part 2: Species of the Rapposa Group (subgenus *Micoureus*). *Bulletin of the American Museum of Natural History* 439: 1–62. [\[DOI\]](#)

<sup>1</sup> Siena College undergraduate student.

- 2020 Voss RS & **TC GIARLA**. A Revision of *Philander* (Marsupialia: Didelphidae), Part 2: Phylogenetic relationships and morphological diagnosis of *P. nigratus* Thomas, 1923. *American Museum Novitates* 3955: 1–16. [\[DOI\]](#)
- 2020<sup>2</sup> Lopatto D et al. (including **TC GIARLA**). Facilitating growth through frustration: Using genomics research in a course-based undergraduate research experience. *Journal of Microbiology & Biology Education* 21: 21.1.6. [\[DOI\]](#)
- 2020 **GIARLA TC** & RS Voss. DNA Sequence data from the holotype of *Marmosa elegans coquimbensis* Tate, 1931 (Mammalia: Didelphidae) resolve its disputed relationships. *American Museum Novitates* 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. *Journal of Mammalogy* 100: 1713–1725. [\[DOI\]](#)
- 2018 **GIARLA TC**, SP Maher, AS Achmadi, MK Moore<sup>3</sup>, MT Swanson, KC Rowe, & JA Esselstyn. Isolation by marine barriers and climate explain areas of endemism in an island rodent. *Journal of Biogeography* 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. *Journal of Mammalogy* 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. *Molecular Phylogenetics and Evolution* 118: 306–317. [\[DOI\]](#)
- 2017<sup>4</sup> 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 *Drosophila ananassae* Muller F element. *G3: Genes, Genomes, Genetics* 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. *Molecular Ecology* 25: 5158–5173. [\[DOI\]](#)
- 2015 **GIARLA TC** & JA Esselstyn. The challenges of resolving a rapid, recent radiation: Empirical and simulated phylogenomics of Philippine shrews. *Systematic Biology* 64: 727–740. [\[DOI\]](#)
- 2015 **GIARLA TC** & SA Jansa. The impact of Quaternary climate oscillations on divergence times and historical population sizes in *Thylamys* opossums from the Andes. *Molecular Ecology* 24: 2495–2506. [\[DOI\]](#)
- 2015 Stanley WT, R Hutterer, **TC GIARLA**, & JA Esselstyn. Phylogeny, phylogeography, and geographic variation in the *Crociodura monax* (Soricidae) species complex from the montane islands of Tanzania, with descriptions of three new species. *Zoological Journal of the Linnean Society* 174: 185–215. [\[DOI\]](#)
- 2015<sup>5</sup> Leung W et al. (including **TC GIARLA**). *Drosophila* Muller F elements maintain a distinct set of genomic properties over 40 million years of evolution. *G3: Genes, Genomes, Genetics* 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 (*Thylamys*: Didelphidae). *Journal of Biogeography* 41: 1547–1558. [\[DOI\]](#)
- 2014 **GIARLA TC**, RS Voss, & SA Jansa. Hidden diversity in the Andes: Comparison of species delimitation methods in montane marsupials. *Molecular Phylogenetics and Evolution* 70: 137–151. [\[DOI\]](#)
- 2010 **GIARLA TC**, RS Voss, & SA Jansa. Species limits and phylogenetic relationships in the didelphid marsupial genus *Thylamys* based on mitochondrial DNA sequences and morphology. *Bulletin of the American Museum of Natural History* No. 346: 1–67. [\[DOI\]](#)

<sup>2</sup> This paper from the Genomics Education Partnership has 103 co-authors.

<sup>3</sup> Louisiana State University undergraduate student.

<sup>4</sup> This paper from the Genomics Education Partnership has 276 co-authors. **I was a member of the eight-person writing committee.**

<sup>5</sup> This paper from the Genomics Education Partnership has 1,015 co-authors.

- 2009 Jansa SA, **TC GIARLA**, & B Lim. The phylogenetic position of the rodent genus *Typhlomys* and the geographic origin of Muroidea. *Journal of Mammalogy* 90: 1083–1094. [\[DOI\]](#)

### BOOK CHAPTERS

- 2017 **GIARLA TC** Family Platanthomyidae. *Handbook of the Mammals of the World* (Vol. 7, Rodents: Part II). DE Wilson, TE Lacher, & RA Mittermeier (Eds.). Barcelona: Lynx.

### RESEARCH GRANTS AND AWARDS

#### *Funded*

- 2016 *Committee on Teaching & Faculty Development Grant* (\$800), Siena College  
 2011–2013 *Doctoral Dissertation Improvement Grant* (\$15,000), Division of Environmental Biology, NSF  
 2010 *Dayton Research Award* (\$600), Bell Museum of Natural History  
 2009 *Travel Award* (\$300), U. Minnesota Council of Graduate Students  
 2009 *Travel Award* (\$1,000), EEB Dept., U. Minnesota  
 2009 *Thesis Research Grant* (\$4,773), U. Minnesota Graduate School  
 2008 *Graduate Research Award* (\$1,221), Society of Systematic Biologists  
 2008 *Dayton Research Award* (\$1,500), Bell Museum of Natural History  
 2008 *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 *Siena College Award for Excellence*, Siena College  
 2018 *Committee on Teaching & Faculty Development Summer Fellowship*, Siena College  
 2016 *Committee on Teaching & Faculty Development Summer Fellowship*, Siena College  
 2011 *Doctoral Dissertation Fellowship*, U. Minnesota  
 2011 *President's Student Leadership and Service Award*, U. Minnesota  
 2010 *Elmer Birney Student Honorarium*, American Society of Mammalogists  
 2009 *Elmer Birney Summer Research Fellowship*, U. Minnesota  
 2007–2009 *Graduate School Fellowship*, U. Minnesota

### INVITED PRESENTATIONS

- 2018 *California State University, Northridge*: Biology Colloquium (Sept. 28<sup>th</sup>)  
 2017 *University of Virginia*: Ecology and Evolutionary Biology Seminar Series (Oct. 24<sup>th</sup>)  
 2016 *Rensselaer Polytechnic Institute*: Biology Department Seminar Series (Feb. 21<sup>st</sup>)  
 2016 *SUNY Albany*: Ecology and Evolutionary Biology Seminar Series (March 25<sup>th</sup>)

### CONFERENCE PRESENTATIONS

- 2019 **GIARLA TC**, JC Kerbis Peterhans, & TC Demos. Phylogeography and taxonomy of the semi-aquatic African murine genera *Colomys* and *Nilopegamys*. 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 Moshier FM<sup>6</sup>, EA Roff<sup>6</sup>, TC Demos, JC Kerbis Peterhans, **TC GIARLA**. Phylogeography of the African Wading Rat, *Colomys goslingi*. American Soc. of Mammal. Conference: Manhattan, KS, June 25–29. *Poster Presentation*.
- 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 KA<sup>6</sup>, 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<sup>6</sup>, JA Esselstyn, & **TC GIARLA**. Utility of whole mitochondrial genomes for species-level phylogenetics of *Maxomys* spiny rats. American Soc. of Mammal. Conference: Minneapolis, MN, June 24–28. *Poster Presentation*.
- 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 *Thylamys* 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 *Thylamys* 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 *Thylamys*: Examining biogeographic patterns in the open habitats of central and southern South America. Evolution Conference: Portland, OR, June 25–29.
- 2010 **GIARLA TC**, RS Voss, & SA Jansa. Systematics of the marsupial genus *Thylamys*: 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 *Thylamys* (Didelphimorphia: Didelphidae). 10th International Mammalogical Congress: Mendoza, Argentina, August 9–14.

## TEACHING AND MENTORSHIP EXPERIENCE

### TEACHING EXPERIENCE

#### *Siena College*

- Biology of the Vertebrates (Spring 2016, 2017, 2018, 2019, 2020)
- Community Development Capstone I and II (Fall 2019, Spring 2020)
- Ecology (Fall 2015, 2016, 2017, 2018, 2019, 2020; Spring 2021)
- General Biology I (Fall 2016)

<sup>6</sup> Siena College undergraduate student.

- Genomics and Bioinformatics (Spring 2017, 2019, 2021)
- Honors Thesis I and II (Spring 2019)
- Research and Writing Skills for Biologists (Spring 2018)

*St. Olaf College*

- Evolution and Diversity (Visiting Instructor, Spring 2013)

## RESEARCH MENTORING

*Siena College*

2020–2021	Kyra Griffin <sup>7</sup> , Eman Khan, Aiyana MacIntyre ( <b>3 students</b> )
2019–2020	Kyra Griffin, Parneet Kaur, Eman Khan, Sean Kusche, Aiyana MacIntyre, Skyler Opromolla, Liliana Sanchez Adames <sup>8</sup> , Greg Sileo ( <b>8 students</b> )
2018–2019	Elizabeth Allegretti, Mathew Dolinar, Francesca Gallo, Carissa Huber, Emily Marticello, Samerna Masih, Margot Pavlik, Karla Perez, Emily Roff <sup>9</sup> , Gregory Sileo, Alexandria Sullivan, Ryan Weis, Dakota Wilkinson ( <b>13 students total; 7 co-advised with Rachel Sterne-Marr</b> )
2018 (Summer)	Emily Roff <sup>10</sup>
2017–2018	Francesca Gallo, Hannah Gregg, Nimra Komal, Samerna Masih, Frank Mosher, Jennifer Park, Emily Roff ( <b>7 students</b> )
2016–2017	Daniel Biljanoski, Naisla Defran, Chantalle Durr, Ashley Herkert, Nathan Natale, Kylie Small, Maria Valdez, Erica Weldin ( <b>8 students total; 4 co-advised with Rachel Sterne-Marr</b> )
2015–2016	Daniel Biljanoski Kelly Moolick, Kylie Small ( <b>3 students</b> )

*Louisiana State University*

2014–2015	Meagan Moore, Chris Reglen, Chelsea Wallace ( <b>3 students</b> )
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*University of Minnesota*

2008–2013	Courtney Comar, Tracy Smelter, Tim Sosa, Jordan Tysdale ( <b>4 students</b> )
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## SERVICE

### INSTITUTIONAL SERVICE AT SIENA COLLEGE

2021–Present	<i>Member</i> , Middle States Reaccreditation Self Study Steering Committee
2021	<i>Member</i> , Associate Director of Institutional Effectiveness Search Committee
2019–2020	<i>Director</i> , HHMI Inclusive Excellence Grant Working Group
2019	<i>Member</i> , Associate Director of Institutional Effectiveness Search Committee
2019	<i>Member</i> , Sociology Teaching Assistant Professor Search Committee
2018–Present	<i>Member</i> , Biology Department Seminar Committee
2018–2020	<i>Advisor</i> , Biology Club
2018–2019	<i>DAC Representative</i> , President's Advisory Committee on Diversity and Inclusion (PACDI)
2018	<i>Discussion Leader</i> , School of Science Diversity and Inclusion Workshop
2017–Present	<i>School of Science Representative</i> , Student Learning Assessment Committee (SLAC)
2017–Present	<i>Assessment Coordinator</i> , Biology Department
2017	<i>Member</i> , Animal Physiologist Tenure-Track Search Committee

<sup>7</sup> CURCA Winter Scholar

<sup>8</sup> Academic Community Engagement (ACE) and Bonner Program capstone student

<sup>9</sup> Honors thesis student

<sup>10</sup> CURCA Summer Scholar

2017 *Member, Microbiology Visiting Professor Search Committee*  
 2016–2020 *Member, Diversity Action Committee (DAC)*

### PROFESSIONAL SERVICE

2021–Present *Associate Editor, Journal of Mammalian Evolution*  
 2016–Present *Member, Genomics Education Partnership*  
 2016 *Review Panel Member, National Science Foundation*  
 2016–Present *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*

### 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 [Publons Reviewer Page](#)*

- *Biological Journal of the Linnean Society*
- *Ecography*
- *Heredity*
- *Journal of Biogeography*
- *Journal of Mammalogy*
- *Journal of Mammalian Evolution*
- *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)
- Research Associate at the American Museum of Natural History