DOMINIC EVANGELISTA PhD

DominicEv@gmail.com | www.RoachBrain.com

SUMMARY

Publications 17 peer reviewed publications; 17 first author publications; 582 citations

Sci-Com Invited talks given = 17; media interviews (print, TV and radio)

Grants & awards Grants > \$10K = 2; total obtained = US\$517,401; total number of awards = 14.

Skills Genomics, bioinformatics, coding, systematics, sci-comm., field biology Other Previously subject editor for *ZooKeys* and science blogger for Ecotome.

PROFESSIONAL APPOINTMENTS

University of Illinois, Urbana-Champaign, IL, USA

Assistant professor 2023 – Present

Adelphi University, Garden City, NY, USA

Assistant professor 2020 – 2022

CUNY, NYC, NY

Adjunct assistant professor 2020

Rutgers University, Newark, NJ

Part-time lecturer 2019

POST-DOCTORAL APPOINTMENTS

Le Muséum national d'Histoire naturelle, Paris, France

NSF Post-doctoral research fellow (1608559) **2016 – 2018**

Project title: Phylogenomics and diversification in Blaberoidea

University of Tennessee, Knoxville, USA

Post-doctoral Research Associate 2018

Project title: Assessing gene-tree discordance with a nested codon model of evolution

EDUCATION

Rutgers University and New Jersey Institute of Technology, Newark, NJ

Ecology and Evolution PhD 2016

Bachelor of Science with Honors in Biology 2010

REFEREED JOURNAL ARTICLES

Published manuscripts

- Evangelista, Nelson^{\$}, Varadínová, Kotyk, Rousseaux, Shanahan, Grandcolas, Legendre. (2024). Phylogenomic analyses of Blattodea combining traditional methods, incremental tree-building, and quality-aware support. *Molecular Phylogenetics and Evolution*. 200. doi: 10.1016/j.ympev.2024.108177
- 2. **Evangelista**, Nelson^{\$}, Kotyková Varadínová, Legendre. (**2023**). Phylogenomics and deep convergence in cockroach hind-wing morphology. *Organisms, Diversity and Evolution*. 10.1007/s13127-023-00609-8
- 3. Wipfler, **Evangelista**, Trische, Weihmann. (**2022**) Morphological, functional and phylogenetic aspects of the head capsule of the cockroach *Ergaula capucina* (Insecta/Blattodea). *PeerJ.* 10:e12470.

4. **Evangelista**, Simon, Wilson, Kawahara, Kohli, Ware, Wipfler, Béthoux, Grandcolas, Legendre. (2021). Assessing support for Blaberoidea phylogeny suggests optimal locus quality. *Systematic Entomology*. doi: 10.1111/syen.12454

- 5. **Evangelista**¹, Goodman¹, Kohli¹, Maflamills¹, Samuel-Foo¹, Sanchez-Herrera¹, Ware¹, Wilson¹. (**2020**). Why diversity matters among those who study diversity. *American Entomologist*. 66:4.
- 6. **Evangelista** (2020). Entomological Heritage: Frances Ann McKittrick: Revolutionary studies of cockroaches. *American Entomologist*. 66:1. 32-36.
- 7. Pringle, Kartzinel ... **Evangelista** ... Losos, Barrett. (2019). Predator-induced collapse of niche structure and species coexistence. *Nature*. doi: 10.1038/s41586-019-1264-6
- 8. **Evangelista**, Legendre, Juna, Varadinova. (2019) New Blattodea from French Guiana, a hotspot of cockroach biodiversity. *Neotropical Entomology*. doi: 10.1007/s13744-019-00677-6
- 9. **Evangelista**¹, Wipfler¹, ... Simon (**2019**) An integrative phylogenomic approach illuminates the evolutionary history of cockroaches and termites (Blattodea). *Proceedings of the Royal Society B.* doi: 10.1098/rspb.2018.2076
- 10. **Evangelista**, Thouze, Kohli, Lopez, & Legendre. (**2018**). Topological support and data quality can only be assessed through multiple tests in Blattodea phylogeny. *Molecular Phylogenetics and Evolution*. doi: 10.1016/j.ympev.2018.05.007
- 11. Cui, **Evangelista**, Béthoux. (**2018**). Prayers for fossil mantis unfulfilled: *Prochaerododis enigmaticus* Piton, 1940 is a cockroach (Blattodea). *Geodiversitas*. 40:15, 355-362. doi: 10.5252/geodiversitas2018v40a15
- 12. **Evangelista**, Djernaes, and Kohli. (**2017**). Fossil calibrations for the cockroach phylogeny (Insecta, Dictyoptera, Blattodea), comments on the use of wings for their identification, and a redescription of the oldest Blaberidae. *Palaeontologia Electronica*. 20.3.1.FC: 1-23.
- 13. **Evangelista**, Russell, G., Russell, K.N., Bourne, & Ware. (2017). Evidence that dispersal barriers influence blaberoid cockroach assemblages in a neotropical savanna-forest matrix. *Insect Conservation and Diversity*. doi: 10.1111/icad.12246
- 14. **Evangelista,** Sylvain[§], Mendoza[§] & Guzman[§]. (**2016**). New and enigmatic cockroaches (Blattodea, Blaberoidea) of Guyana. *Journal of Natural History*. doi: 10.1080/00222933.2016.1193647
- 15. **Evangelista,** Chan[§], Kaplan[§], Wilson[§], & Ware. (2015) The Blattodea ss (Insecta: Dictyoptera) of the Guiana Shield. *ZooKeys*.475. 37-87. doi: 10.3897/zookeys.475.7877
- 16. **Evangelista,** Bourne, & Ware. (**2014**). Species richness estimates of Blattodea s.s. (Insecta: Dictyoptera) from northern Guyana vary depending upon methods of species delimitation. *Systematic Entomology*. 39. doi: 150-158. 10.1111/syen.12043
- 17. ***Evangelista,** Buss, & Ware. (2013) Using DNA barcodes to identify a new invasive cockroach in New York City. *Journal of Economic Entomology*. 106:6. 2275-2279.

Manuscripts submitted, in prep, or preprint

- 18. Deng, Drager, Li, Han, Djernaes, Wang, Schwartz, Zhang, Kovacs, Lo, Hellemans, Che, Bourguignon, Wang, **Evangelista**. (in review 2024). Blattodea systematics in the genomic age. *Insect Systematics and Diversity*.
- 19. Evangelista, Gilchrist, Legendre, O'Meara. (in review 2024). Concatenation fails to describe the anomalous radiation of Giant Cockroaches (Blattodea: Blaberidae) despite evidence of generally low discordance. Systematic Biology. (preprint: https://doi.org/10.1101/717660)
- Evangelista, Medina Espinoza, Drager, Gile, Mendieta Yanez, Vanker. (in prep 2024). Natural history of Lamproblattidae: Diet, behavior, systematics and consequences for evolution of eusociality. Arthropod Systematics and Phylogeny
- 21. Kohli, Barba-Montoya, **Evangelista**, Ware. (in review **2024**). Effects of local calibrations overwhelm estimated divergence-times. *Molecular Biology & Evolution*.

22. Esposito, Evangelista ... Ware (in prep 2025). Evaluating perceptions of STEM majors to explain diversity gaps in Entomology and other sciences: Race, gender, and sexuality. CBE - Life Sciences Education

23. Frandsen, Wipfler, Mayer, Ware, Evangelista et al. (in prep 2025). Phylogenomics resolves diversification patterns in insects. Nature.

Other published works

- 24. Evangelista. (2022). Insects, 60% of all Biodiversity. In. Encyclopedia of Biodiversity. Ed. Moreau. http://dx.doi.org/10.1016/B978-0-12-822562-2.00069-4
- 25. Evangelista. (2017). Species account: Eurycotis blattoides. In. Suriname: Natural History & Ecology. Ed. H. Hiwat, B. De Dijn, WWF Guianas. 1. 190pp.
- 26. Evangelista, & Ware. (2015). What can we learn from a phylogeny of Blaberoidea? Metaleptea. 35. 2-14.

GRANTS

Aw	ard	led

NSF DEB Award # 2209323 (\$277,546) Adelphi Faculty Development Grant (\$3500) NSF Postdoctoral Research Fellowship in Biology (\$198,000) Rutgers University – Newark – Graduate School Dissertation Fellowship (\$20,000) Rutgers University – Newark – Graduate School Travel Award (< \$5000) Monsanto Student Travel Award (< \$5000) Systematics, Evolution and Biodiversity Travel Award (ESA) (< \$5000) Experiment.com (crowd funding) (< \$5000) Smithsonian Biodiversity of the Guiana Shield Grant (< \$5000) NSF Advance (< \$5000) Applied	2023 - 2025 2021 2016 - 2018 2015 - 2016 2014, 2015, 2016 2014, 2016 2014 2014 2014 2012, 2013 2013
National Geographic: RFB – The Big Questions: Lights: Humans and insects	
(\$96,889)	2024
NSF DEB: SBS: Niche breadth evolution beyond herbivory: Phyloecological investigation of generalist insects (\$1,226,165)	2024
NSF DEB: SBS: Collaborative Research: RUI: Integrative Phylogenomics of Wing Repurposing, Vestigiality and Loss (\$481,103)	2021
NSF DEB: SBS: Collaborative Research: RUI: Investigating Wing Repurposing, Vestigiality and Loss through Phylogenomics (\$526,584)	2020
NSF DEB: Dimensions of biodiversity: Collaborative research: The genetic mechanisms underlying functional and morphological diversification of Madagascar's largest insects (\$922,548)	2017
National Geographic: Discovering the evolutionary precursors to termite diversification in Lamproblatta (\$42,000)	2017

Trainee grants (Graduate students)

Schwartz. Graduate College Fellowship for Under-represented Students. (\$75,000) 2023

^{*}Cover article; ¹shared first author; \$undergraduate co-author.

PhD Advisees Johanna Schwartz Emmy Fiorella Medina Espinoza Master's Advisees Jared Martin Carduate Student Committee Member Ember Clodfelter (Master's, Entomology; PhD, Entomology) Juliana Soto (PhD, PEEC) Theodore Cook (Master's, Entomology) Phillip Hogan (PhD, EEB) Supervision of Undergraduate Students Alix Zitzow (Fall 2024) – SIB-Major Abraham Morales (Fall 2024) – SIB-Major Dylan Melvin (Fall 2024) – SIB-Major Devin Lee (Spring 2023) – SIB Major Katharine Vankar (2023-Ongoing) – SIB Major Angelo Kovacev-Ramirez (F2023) – SIB Major Drew Logothetis (F2023) – SIB Major Alex Osepek (F2023- Ongoing) – SIB Major Mallory Phillips (S2024) – SIB Major Shrey Raj (S2024) – MCB Major, Informatics Minor Leslie Olivares (S2024) – SIB Major, Informatics Minor	Medina-Espinosa. Illinois Distinguished Fellowship. (\$75,000)	2024
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2015

Phylogenomics and origins of diversity in Dictyoptera (1KITE)

7th Dresden Meeting on Insect Phylogeny in Dresden, Germany	
How does dispersal ability affect the spatial organization of geographic ranges? Symposium: A Hitchhiker's Guide to the Microcosmos. Ent. Soc. Am., Portland, OR	2014
What we can learn from a phylogeny of Blaberoidea Symposium: Orthopteroid Insects. Ent. Soc. of America, Portland, OR	2014
The Yamato Cockroach in NYC and applications for genetic barcoding Long Island Invasive Species Conference – Queens, NY	2014
What is a species? Special Event: Honors College, Rutgers University – Newark, NJ	2014
Measuring species richness of Blattodea in the Guiana Shield Symposium: Dynamics of tropical ecosystems. Ent. Soc. Of America at Austin, TX	2013
How to effectively communicate science C2PRISM Workshop. New Jersey Institute of Technology	2013
Measuring species richness of Blattodea in Guyana Symposium: Cockroaches: More than pests. Ent. Soc. Of America at Knoxville, TN *	2012
Submitted talks (selected)	
Quality-aware support values as the cornerstone to clarifying uncertainty in a	
phylogenomic super-tree of Blattodea Entomology 2023, National Harbor, MD USA	2023*
Phylogenomics resolves deep morphological convergence among cockroaches	
(Blattodea)	2021 2021
Quantifying the inclusion gap in entomology Entomology 2021, Denver CO USA	2021
Advances in the cockroach phylogeny Entomology 2020, Virtual Conference	2020
Optimized subsampling improves recovery of an empirical phylogeny under the	
criteria of phylogenetic synecdoche	2019
Evolution 2019, Providence RI, USA	
The evolution of cockroaches and termites through fossils and phylogeny Social Insects in the North East Regions (SINNERS), Philadelphia, Pennsylvania	2018
The evolutionary history of cockroaches & termites through fossils and phylogeny 5 th International Palaeontological Congress in Paris, France	2018
Phylogenomics of cockroaches (Blattodea)	2017
Ent. Soc. Of America 2017 at Denver, Colorado	2011
How does dispersal ability affect the spatial organization of geographic ranges? Evolution 2014 in Raleigh, NC	2014
Posters	
The implications of over-estimating gene tree discordance on a rapid-radiation	
species tree	2019
Evolution 2019, Providence RI, USA	
SYMPOSIA ORGANIZED	
*Anticipated Parilding a hotton Insent Tree of Life	2024
Building a better Insect Tree of Life ICE 2024 (Kyoto, Japan)	2024
Building a better Insect Tree of Life	2023

Entomology 2023, National Harbor, MD USA

Practicing Diversity, Equity and Inclusion in Entomology

Entomology 2021, Denver CO USA

COURSES DESIGNED

*Instructor of record

Principles of Systematics*

UIUC (2026)

Insect Classification*

UIUC (2023, 2025)

Evolution*

Brooklyn College (2019, 2020), Adelphi University (2020-2022), UIUC (2024)

Computational Biology*

Adelphi University (2021)

Animal Tree of Life*

Adelphi University (2022)

Methods in Evolution*

Adelphi University (2022)

General Biology (part) *

Lehman College (2019), Adelphi University (2020-2022)

PEDAGOGICAL TECHNIQUES EMPLOYED

Active learning

- Student centered course design
- In-class group assignments
- Peer-review

Low stakes, weekly readiness assessments

Scaffolded assignments

Experiential learning

• Case-study focused assignments/assessments

2021

- Research integrated into laboratory work
- Field trips
- Kolb-cycle assignment design

Socio-cognitive pedagogy

• Self-assessments and reflections for promoting science self-efficacy and identity

OTHER SCIENCE WRITING

Self /co-authored blogs

SciFund Challenge – The EcoTome (selected articles)

Phylogeny of elves finds that Santa's workers are actually dwarves (>19,000 views as of

2021)

What is a cockroach? (> 5000 views as of 2021)

2015

Entomology Today
A cacophonous case of careless characters

2016

Vengeful Taxonomy 2014

Social media

@Roach_Brain (800+ Followers) 2013 – Present

SOFTWARE DEVELOPED

Phyloinformatica

AwareSupport

SERVICE

Professional service

ECP Outreach & Public Engagement Award panel member

2023 - 2025

ESA Science Policy Committee - SysEB Representative

2023 - 2025

University and departmental service

Courses and curriculum committee

2024 - Present

Organized mentorship development workshop "Maximizing Mentoring Relationships" (May 20, 2024) with

Dr. Anna Sokac

SIB Diversity Equity and Inclusion Taskforce committee member

2023

Public Engagement, Outreach, and/or Extension

Content-matter expert consultation for episode of PBS Insectarium series by AMNH 2024

Other Service

EntoPOC board member service

2020 - Present

Contributor to global conservation initiatives

GLiTRS - Taxonomic expert

RCN – Neotropical Working Group contributor

REFERENCES

Professional/Academic

Frédéric Legendre (post-doctoral mentor)

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