

EMMANUEL F.A. TOUSSAINT

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EDUCATION

2014	Ph.D.	Ludwig Maximilian University of Munich, Munich, Germany
2011	M.Sc.	Paris-Sud XI University (Paris-Saclay University), Orsay, France
2008	B.Sc.	Paris-Sud XI University (Paris-Saclay University), Orsay, France

PROFESSIONAL APPOINTMENTS

2025–present	Lecturer	University of Geneva (ISE), Geneva, Switzerland
2019–present	Research Officer	Natural History Museum of Geneva, Geneva, Switzerland
2017–2018	Post-doc	University of Florida, Gainesville, USA (A. Kawahara Lab)
2015–2016	Post-doc	University of Kansas, Lawrence, USA (A. Short Lab)

AWARDS, FELLOWSHIPS AND GRANTS

2022–2026	Swiss National Science Foundation (SNF) project 310030_200491: Evolution and genomic architecture of flight loss in <i>Calosoma</i> beetles. (PI). 584,179 CHF
2021	Natural History Museum of Geneva seed grant: Phylogenomics of Manticorini tiger beetles using ultraconserved elements. (PI). 6,170 CHF
2017	Mohamed bin Zayed Species Conservation Fund (MBZ) project 17051545: Conservation status of the Marquesan Snout butterfly, <i>Libythea collettei</i> . (Co-PI). 2,500 \$
2016	17 th Hintelmann scientific award for zoological systematics. 5,000 €
2014–2015	German Research Foundation (DFG) project BA2152/20–1: Old World tropical biogeography and the evolution of <i>Charaxes</i> butterflies. (Co-PI). 32,000 €
2013–2018	Travel grants. 1850 \$

ADVISING AND MENTORING

2026–2027	Daniel Alaez (M.Sc. student / University of Geneva, Switzerland)
2026	Liam Paltani (M.Sc. student / University of Geneva, Switzerland)
2022–2026	Cody Raul Cardenas (Ph.D. student, University of Geneva, Switzerland)
2024–2025	Agata Kowalik (M.Sc. student / University of Geneva, Switzerland)
2023–2025	Jérémy Gauthier (Post-doc, University of Geneva, Switzerland)
2024	Matilde Nari (M.Sc. student / University of Geneva, Switzerland)
2020–2023	Marie T. Pauli (M.Sc. student, University of Geneva, Switzerland)
2021	Leonardo Platania (Ph.D. student / short stay, Pompeu Fabra University-CSIC, Spain)
2018–2021	Ryan A. St Laurent (Ph.D. student, University of Florida, USA)
2018	Amanda Widom (Undergraduate student, University of Florida, USA)
2017–2020	Harlan M. Gough (Ph.D. student, University of Florida, USA)
2017–2018	Chris A. Johns (Ph.D. student, University of Florida, USA)
2015–2017	Stephen M. Baca (M.Sc./Ph.D. student, University of Kansas, USA)
2015–2017	Marianna V.P. Simões (Ph.D. student, University of Kansas, USA)
2011–2014	Jérôme Morinière (M.Sc./Ph.D. student, Technische Universität München, Germany)
2012	Daniel Frank (M.Sc. student, Ludwig-Maximilians University, Germany)

TEACHING

- 2024–present ST14B657 / Phylogeny and Molecular Evolution, University of Geneva, Switzerland (Guest lecturer)
2023–present E4E260 CR / Ecology and Evolution of Insects, University of Geneva, Switzerland
2020–present 14B013 CR / Advanced Studies in Systematics, University of Geneva, Switzerland
2019–2022 14B642 ST / Faune Genevoise, University of Geneva, Switzerland
2019 14B007 CR / Biogeography, University of Geneva, Switzerland (Guest lecturer)
2018 ENY6934: Seminar in Arthropod Phylogenetic Systematics, University of Florida, USA
2017 Divergence dating and calibrations of phylogenetic trees, UNAM, Mexico (Workshop)
2017 Molecular divergence time estimation, University of Florida, USA (Workshop)
2012 IGN-TTRC, Module II: DNA Barcoding, University of Andalas and University of Brawijaya, Indonesia

AFFILIATIONS AND PROFESSIONAL MEMBERSHIPS

- Member of the Royal Entomological Society (since 2025)
Member of the Société Entomologique de Genève (since 2025)
Member of the Société Française de Systématique (since 2025)
Member of the European Reference Genome Atlas consortium (ERGA) (since 2024)
Member of the Société Entomologique de France (since 2020)
Courtesy Faculty at the Florida Museum of Natural History, Gainesville, USA (2018-2023)
Member of the Linnean Society (Elected fellow since 2017)
Adjunct Research Associate of the KU Natural History Museum, Lawrence USA (2016-2022)
Member of the Society for Systematic Biologists (since 2014)

JOURNAL *AD HOC* PEER REVIEWER

Annales de la Société entomologique de France (N.S.), Austral Entomology, Biodiversity Data Journal, Biological Journal of the Linnean Society, Biological Reviews, BMC Evolutionary Biology, BMC Genomics, Bulletin de la Société vaudoise des sciences naturelles, Communications Biology, Diversity, Ecography, Ecology and Evolution, Ecology Letters, eLife, European Journal of Entomology, Evolution, Global Ecology and Biogeography, Insect Systematics and Diversity, Insects, Integrative and Comparative Biology, Invertebrate Systematics, iScience, Journal of African Earth Sciences, Journal of Biogeography, Molecular Biology and Evolution, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Nature Communications, Palaeontology, PeerJ, PLoS ONE, Proceedings B, Royal Society Open Science, Scientific Reports, Systematics and Biodiversity, Systematic Biology, Systematic Entomology, Tropical Lepidoptera Research, Zoologica Scripta, Zoological Journal of the Linnean Society, ZooKeys, Zootaxa

FUNDING AGENCY / TRAINING PROGRAM *AD HOC* PEER REVIEWER

Coleopterists Society Graduate Student Research Enhancement Awards, Croatian Science Foundation (HRZZ), German Research Foundation (DFG), LinnéSys Systematics Research Fund, National Science Center Poland (NCN), Norwegian Research School in Biosystematics (ForBio), PRESTIGE Postdoc program (Marie Curie Actions COFUND), UK Research and Innovation - Natural Environment Research Council (NERC)

PH.D. OPPONENT / JURY

- 2026 Ph.D. opponent – Benjamin Zelvelder, University of Montpellier, France (15th September 2026)
- 2026 Ph.D. opponent – Noémie Hévin, University of Montpellier, France (29th January 2026)
- 2025 Ph.D. opponent – Matthew Greenwood, Grenoble Univ., France (27th March 2025)
- 2021 Ph.D. opponent – Karen Salazar, Sorbonne Univ., France (10th December 2021)
- 2021 Ph.D. opponent – Aslak Kappel Hansen, Natural History Museum of Denmark, University of Copenhagen, Denmark (22nd April 2021)
- 2021 Ph.D. opponent – Ryan St Laurent, Florida Natural History Museum – University of Florida, USA (11th February 2021)

EDITORIAL ACTIVITIES

- 2025–present Editor-in-chief – *Systematic Entomology*
- 2025–present Editor-in-chief – *Revue suisse de Zoologie*
- 2025–present Managing board representative – *Peer Community In Zoology* (PCI Zoology)
- 2023–present Editorial board member – *Peer Community Journal*
- 2023–present Recommender – *Peer Community In Zoology* (PCI Zoology)
- 2023–present Managing board member – *Peer Community In Zoology* (PCI Zoology)
- 2021–present Editorial board member – *BMC Ecology and Evolution*
- 2021–present Editorial board member – *Revue suisse de Zoologie*

UNIVERSITY AND LEARNED SOCIETY ACTIVITIES

- 2025–present PI – the Ecology and Evolution (ECOVO) program / PhD School of Life Sciences at the Faculties of Medicine and Science, University of Geneva, Switzerland
- 2023–present Managing board member – *Swiss Society of Systematics* (SSS)

MEDIA INTERACTION AND OUTREACH

- 2026 MHNG Instagram platform – « Mission au Texas II » – Natural History Museum of Geneva (12th May 2026, Geneva, Switzerland)
- 2025 MHNG Instagram platform – « Mission au Texas » – Natural History Museum of Geneva (5th March 2025, Geneva, Switzerland)
- 2023 Interview in Genève Grandeur Nature (Léman Bleu Télévision) – « Vieux arbres, un trésor à préserver pour la biodiversité » (10th October 2023)
- 2023 AG!R workshop for kids – “Chasser avec les coléoptères” – Museum of Natural History (16th May 2019, Geneva, Switzerland)
- 2022 Interview in CQFD (RTS / Radio Télévision Suisse) – « Comment vont les insectes: des comportements bizarres ». (21st June 2022)
- 2021 Interview in Couleurs Locales (RTS / Radio Télévision Suisse) – « À la découverte des xylophages, ces insectes mangeurs de bois ». (15th September 2021)
- 2021 “Skype a Scientist”: 1st grade class, Virtual School Elementary (Halton District School Board), Oakville, Ontario, Canada. (Teacher: Sasha Crawford). (14th June 2021)
- 2021 Interview in 19h30 (RTS / Radio Télévision Suisse) – « Très importantes pour la biodiversité et l'environnement, les libellules sont menacées d'extinction ». (17th April 2021)
- 2021 Live streaming for the series “Museum LIVE” in the temporary exhibit Trésors of the Natural History Museum of Geneva (31st March 2021)
- 2021 “Skype a Scientist”: 7th grade class, St. Jerome School, Philadelphia, PA, USA. (Teacher: Tina Schmidt). (24th March 2021)
- 2020 Interview in Terre & Nature – « Nommer la nature qui nous entoure, c'est l'art menacé de la taxonomie » (story by Clément Grandjean). (8th October 2020)
- 2020 Article “Les Carabes, Calosomes et Cychres de Genève: détenteurs de mystères évolutifs et maillons essentiels au bon équilibre environnemental” on the museumlab-geneve web site (20th July 2020)
- 2020 “Skype a Scientist”: 5th grade class, MUSE School, Calabasas, CA, USA. (Teacher: Karen Ford). (5th May 2020)
- 2019 “Skype a Scientist”: 4th grade class, Catawba Springs Elementary, Denver, NC, USA. (Teacher: Kim Mileta). (1st April 2019)
- 2019 Interview in Genève Grandeur Nature (Léman Bleu Télévision) – « Papillons de Genève » (3rd April 2019)
- 2019 Interview in CQFD (RTS / Radio Télévision Suisse) – « L'origine des demoiselles géantes ». (19th March 2019)
- 2019 “Skype a Scientist”: 10th grade class, King William High School, King William, VA, USA. (Teacher: Lydia Gruber). (16th January 2019)
- 2018 “Skype a Scientist”: 4th grade class, Blue Mountain School District, Orwigsburg, PA, USA. (Teacher: Amy Krick). (20th November 2018).
- 2018 Interview in UF News – « Building a bug's life / Meet the entomologist traversing the tropics to understand insect histories » (story by Darcy Herlihy). (15th August 2018)
- 2014 “Nuits des insectes au Manoir du Catel” / Light-trapping with a local community in a preserved landscape, the “clos-masure” - 31st European Heritage Days (20th–21st September 2014, Manoir du Catel, Ecretteville-lès-Baons, France)

PEER–REVIEWED PUBLICATIONS († equally contributing authors / § co-senior authors)

94. Gustafson GT, Bybee S, Cardenas CR, Gauthier J, **Toussaint EFA** (2026) Phylogenomics of Manticorini tiger beetles supports ancient Gondwanan vicariance and recent American amphitropical disjunction. *Proceedings B* (in press).
93. **Toussaint EFA**, Condamine FL, Carvalho APS, Plotkin DM, Ellis EA, Dexter KM, Earl C, Aduse-Poku K, Braby MF, Chiba H, Gott RJ, Maruyama K, Morais ABB, Müller CJ, Peggie D, Sáfían S, Vila R, Warren AD, Yago M, Breinholt JW, Espeland M, Pierce NE, Lohman DJ, Kawahara AY (2026) Global climate cooling spurred skipper butterfly diversification. *Systematic Biology* (in press)
92. Cardenas CR, Gauthier J, Mottaz H, Bilat J, Hristovski S, **Toussaint EFA** (2026) Climatic swings triggered incipient postglacial speciation of flightless *Calosoma* beetles in Western Balkan sky islands. *Frontiers of Biogeography* (in press)
91. **Toussaint EFA**, Cibois A, Monod L (2026) Looking forward with the Revue Suisse de Zoologie. *Revue Suisse de Zoologie*, 133(1):1–2
90. Cardenas CR, Gustafson GT, **Toussaint EFA** (2025) Global integration of phylogenomic data and fine-scale partitioning strategies refine the evolutionary tree of Adephaga beetles. *Bulletin of the Society of Systematic Biologists*, 4(1): doi: 10.18061/bssb.v4i1.10345
89. Aimé E, Benavides LR, Blaimer BB, Espeland M, Kergoat GJ, Owen CL, **Toussaint EFA**, Weirauch C (2025) Developing *Systematic Entomology* and expanding its scope. *Systematic Entomology*, Editorial: 1–2
88. Gauthier J, Cardenas CR, Nari M, Gillett CPDT, **Toussaint EFA** (2025) Draft genome of the endemic alpine ground beetle *Carabus (Platycarabus) depressus* (Coleoptera: Carabidae) from long-read sequencing of a frozen archived specimen. *G3: Genes, Genomes, Genetics*, 15(5): jkaf027
87. Gauthier J, Blanc M, **Toussaint EFA** (2025) Chromosome-scale genomes of the flightless caterpillar hunter beetles *Calosoma tepidum* and *Calosoma wilkesii* from British Columbia (Coleoptera: Carabidae). *Genome Biology and Evolution*, 17(1): evae247
86. **Toussaint EFA**, Gillett CPDT, Löbl I (2024) The fate of natural history collections in the face of good intentions. *Biological Journal of the Linnean Society*, 143(3): 1–4
85. Cosandey V, Konvička O, **Toussaint EFA** (2024) Legacy molecular phylogenetics suggests restricting the concept of Melandryidae and resurrecting Osphyidae (Coleoptera: Tenebrionoidea). *Arthropod Systematics & Phylogeny*, 82: 621–627
84. Platania L, Cardoso A, Anderson M, Fikáček M, Gauthier J, Hendrich L, Mille C, Morii Y, Reid CAM, Seidel M, Morgan-Richards M, Trewick S, **Toussaint EFA**, Gómez-Zurita J (2024) New Caledonian rovers and the historical biogeography of a hyper-diverse endemic lineage of South Pacific leaf beetles. *Systematic Entomology*, 49(4): 565–582
83. Pauli MT, Gauthier J, Labédan M, Blanc M, Bilat J, **Toussaint EFA** (2024) Museomics of *Carabus* giant ground beetles evidences an Oligocene origin and *in situ* Alpine diversification. *Peer Community Journal*, 4: e70
82. Liang W, Nunes R, Leong JV, Carvalho APS, Müller CJ, Braby MF, Pequin O, Hoshizaki S, Morinaka S, Peggie D, Badon JAT, Mohagan AB, Beaver E, Hsu YF, Inayoshi Y, Monastyrskii A, Vlasanek P, **Toussaint EFA**, Benítez HA, Kawahara AY, Pierce NE, Lohman DJ (2024) To and fro in the archipelago: Repeated inter-island dispersal and New Guinea’s orogeny affect diversification of *Delias*, the world’s largest butterfly genus. *Molecular Phylogenetics and Evolution*, 194:

108022

81. Letsch H, Balke M, Kusy D, McKenna DD, Narakusumo RP, Sagata K, **Toussaint EFA**, White LT, Riedel A (2023) Beetle evolution illuminates the geological history of the World's most diverse tropical archipelago. *Ecography*, 12: e06898
80. Gauthier J, Borer M, **Toussaint EFA**, Bilat J, Kippenberg H, Alvarez N (2023) Museomics reveals evolutionary history of *Oreina* alpine leaf beetles (Coleoptera: Chrysomelidae). *Systematic Entomology*, 48(4): 658–671
79. Kawahara AY, Storer C, Carvalho APS, Plotkin DM, Condamine FL, Braga MP, Ellis EA, St Laurent RA, Li X, Barve V, Cai L, Earl C, Frandsen PB, Owens HL, Valencia-Montoya WA, Aduse-Poku K, **Toussaint EFA**, Dexter KM, Doleck T, Markee A, Messcher R, Nguyen Y-L, Badon JAT, Benítez HA, Braby MF, Buenavente PAC, Chan W-P, Collins SC, Childers RAR, Dankowicz E, Eastwood R, Fric ZF, Gott RJ, Hall JPW, Hallwachs W, Hardy NB, Sipe RLH, Heath A, Hinolan JD, Homziak NT, Hsu Y-F, Inayoshi Y, Ithiong MGA, Janzen DH, Kitching IJ, Kunte K, Lamas G, Landis MJ, Larsen EA, Larsen TB, Leong JV, Lukhtanov V, Maier CA, Martinez JI, Martins DJ, Maruyama K, Maunsell SC, Mega NO, Monastyrskii A, Morais ABB, Müller CJ, Naïve MAK, Nielsen G, Padrón PS, Peggie D, Romanowski HP, Sáfián S, Saito M, Schröder S, Shirey V, Soltis D, Soltis P, Sourakov A, Talavera G, Vila R, Vlasanek P, Wang H, Warren AD, Willmott KR, Yago M, Jetz W, Jarzyna MA, Breinholt JW, Espeland M, Ries L, Guralnick RP, Pierce NE, Lohman DJ (2023) A global phylogeny of butterflies reveals their evolutionary history, ancestral hosts, and biogeographic origins. *Nature Ecology and Evolution*, 7: 903–913
78. Condamine FL, Allio R, Reboud EL, Dupuis JR, **Toussaint EFA**, Mazet N, Hu S-J, Lewis DS, Kunte K, Cotton AM, Sperling FAH (2023). A comprehensive phylogeny and revised taxonomy illuminate the origin and diversification of the global radiation of *Papilio* (Lepidoptera: Papilionidae). *Molecular Phylogenetics and Evolution* 183: 107758
77. **Toussaint EFA** (2023) Book Review: Peeters I (2023) *The Genus Carabus in Belgium (Coleoptera: Carabidae)*. 2022. Phegea 50 (Supplement): 1-260. *Revue suisse de Zoologie*, 130(1): 125
76. Cosandey V, **Toussaint EFA** (2023) Catalogue of the Diptera type material housed in the collection of the Natural History Museum of Geneva, Switzerland. *Revue suisse de Zoologie*, 130(1): 99–120
75. Kawahara AY, Martinez JI, Plotkin DM, Markee A, Butterwort V, Couch C, **Toussaint EFA** (2023) Mezcal worm in a bottle: DNA evidence suggests a single moth species. *PeerJ*, 11: e14948
74. Bilton DT, Jäch M, Ribera I, **Toussaint EFA** (2023) Minute moss beetles in the Southern Hemisphere: Molecular phylogeny, historical biogeography and habitat shifts (Coleoptera: Hydraenidae). *Systematic Entomology*, 48(1): 142–162
73. **Toussaint EFA**, Braby MF, Müller CJ, Dexter KM, Storer CG, Lohman DJ, Kawahara AY (2022) Explosive Cenozoic origin and diversity-dependent diversification dynamics shaped the evolution of Australian skipper butterflies. *Evolutionary Journal of the Linnean Society*, 1(1): 1–10
72. **Toussaint EFA**, Braby MF, Müller CJ, Petrie EA, Kawahara AY (2022) Molecular phylogeny, systematics and generic classification of the butterfly subfamily Trapezitinae (Lepidoptera: Papilionoidea: Hesperiiidae). *Zoological Journal of the Linnean Society*, 195(4): 1407–1421
71. Baca SM†, Gustafson GT†, Alexander AM, Gough HM, **Toussaint EFA** (2021) Integrative phylogenomics reveals a Permian origin of Adephaga beetles. *Systematic Entomology*, 46(4): 968–990

70. **Toussaint EFA**†, Gauthier J†, Bilat J, Gillett CPDT, Gough HM, Lundkvist H, Muñoz-Ramírez CP, Alvarez N (2021) HyRAD-X exome capture museomics unfolds giant ground beetle evolution. *Genome Biology and Evolution*, 13(7): evab112
69. Carvalho APS, St Laurent RA, **Toussaint EFA**, Storer CG, Dexter KM, Aduse-Poku K, Kawahara AY (2021) Is sexual conflict a driver of speciation? A case study with a tribe of brush-footed butterflies. *Systematic Biology*, 70(3): 413–420
68. **Toussaint EFA**, White LT, Shaverdo HV, Lam A, Surbakti S, Panjaitan R, Sumoked B, von Rintelen T, Sagata K, Balke M (2021) New Guinean orogenic dynamics and biota evolution revealed using a custom geospatial analysis pipeline. *BMC Ecology and Evolution*, 21: 51
67. Short AEZ, Girón JC, **Toussaint EFA** (2021) Evolution and biogeography of acidocerine water scavenger beetles (Coleoptera: Hydrophilidae) shaped by Gondwanan vicariance and Cenozoic isolation of South America. *Systematic Entomology*, 46(2): 380–395
66. **Toussaint EFA**, Chiba H, Yago M, Dexter KM, Warren AD, Storer CG, Lohman DJ, Kawahara AY (2021) Afrotropics on the wing: Phylogenomics and historical biogeography of awl and policeman skippers. *Systematic Entomology*, 46(1): 172–185
65. **Toussaint EFA**, Ellis EA, Gott RJ, Warren AD, Dexter KM, Storer CG, Lohman DJ, Kawahara AY (2021) Historical biogeography of Heteropterinae skippers via Beringian and post-Tethyan corridors. *Zoologica Scripta*, 50(1): 100–111
64. Ortiz-Acevedo E, Gomez JP, Espeland M, **Toussaint EFA**, Willmott KR (2020) The roles of wing color pattern and geography in the evolution of Neotropical Preponini butterflies. *Ecology and Evolution*, 10(23): 12801–12816
63. Letsch H, Balke M, **Toussaint EFA**, Narakusumo RP, Fiedler K, Riedel A (2020) Transgressing Wallace’s Line brings hyperdiverse weevils down to earth. *Ecography*, 43(9): 1329–1340
62. Gillett CPDT, **Toussaint EFA** (2020) Macroevolution and shifts in the feeding biology of the New World scarab beetle tribe Phanaeini (Coleoptera: Scarabaeidae: Scarabaeinae). *Biological Journal of the Linnean Society*, 130(4): 661–682
61. **Toussaint EFA**, Müller CJ, Morinière J, Tänzler R, Balke M (2020) Glide over the Indo-Australian geological maze: Repeated transgressions of Lydekker’s and Wallace’s Lines in Archdukes, Barons and Dukes (Nymphalidae, Limenitidinae, Adoliadini). *Biological Journal of the Linnean Society*, 129(4): 810–821
60. Letsch H, Balke M, **Toussaint EFA**, Riedel A (2020) Historical biogeography of the hyperdiverse hidden snout weevils (Coleoptera, Curculionidae, Cryptorhynchinae). *Systematic Entomology*, 45(2): 312–326
59. Gough HM, Allen JM, **Toussaint EFA**, Storer CG, Kawahara AY (2020) Transcriptomics illuminate the phylogenetic backbone of tiger beetles. *Biological Journal of the Linnean Society*, 129(3): 740–751
58. **Toussaint EFA**, Warren AD (2019) A review of red eye pigmentation and diel activity patterns in skippers (Lepidoptera, Papilionoidea, Hesperiiidae). *Journal of Natural History*, 53(35-36): 2165–2181
57. Kawahara AY, Plotkin D, Espeland M, Meusemann K, **Toussaint EFA**, Donath A, Gimnich F, Frandsen PB, Zwick A, dos Reis M, Barber JR, Peters RS, Liu S, Zhou X, Mayer C, Podsiadlowski

- L, Storer CG, Yack JE, Misof B, Breinholt JW (2019) Phylogenomics reveals the evolutionary timing and pattern of butterflies and moths. *Proceedings of the National Academy of Sciences, USA*, 116(45): 22657–22663
56. **Toussaint EFA**, Short AEZ (2019) Historical biogeography of Holarctic *Cymbiodyta* water scavenger beetles in the times of Cenozoic land bridge dispersal routes. *Insect Systematics and Diversity*, 3(5): 8
55. **Toussaint EFA**, Vila R, Yago M, Chiba H, Warren AD, Aduse-Poku K, Storer CG, Dexter KM, Maruyama K, Lohman DJ, Kawahara AY (2019) Out of the Orient: Post-Tethyan transoceanic and trans-Arabian routes fostered the spread of Baorini skippers in the Afrotropics. *Systematic Entomology*, 44(4): 926–938
54. **Toussaint EFA**, Dias FMS, Mielke OHH, Casagrande MM, Sañudo-Restrepo CP, Lam A, Morinière J, Balke M, Vila R (2019) Flight over the Proto-Caribbean seaway: Phylogeny and macroevolution of Neotropical Anacini leafwing butterflies. *Molecular Phylogenetics and Evolution*, 137: 86–103
53. **Toussaint EFA**, Bybee SM, Erickson RJ, Condamine FL (2019) Forest giants on different evolutionary branches: Ecomorphological convergence in helicopter damselflies. *Evolution*, 73(5): 1045–1054
52. Simões MVP, Baca SM, **Toussaint EFA**, Windsor DM, Short AEZ (2019) Solving a thorny situation: DNA and morphology illuminate the evolution of the leaf beetle tribe Dorynotini (Coleoptera, Chrysomelidae, Cassidinae). *Zoological Journal of the Linnean Society*, 185(4): 1123–1136
51. Gough HM, Duran DP, Kawahara AY, **Toussaint EFA** (2019) A comprehensive molecular phylogeny of tiger beetles (Coleoptera, Carabidae, Cicindelinae). *Systematic Entomology*, 44(2): 305–321
50. **Toussaint EFA**, Turlin B, Balke M (2019) Biogeographical, molecular and morphological evidence unveils cryptic diversity in the Oriental Black Rajah *Charaxes solon* (Fabricius, 1793) (Lepidoptera, Nymphalidae, Charaxinae). *Biological Journal of the Linnean Society*, 126(1): 114–130
49. Kergoat GJ†, Condamine FL‡, **Toussaint EFA**, Capdevielle-Dulac C, Clamens AL, Barbut J, Goldstein PZ§, Le Ru BP§ (2018) Opposite macroevolutionary responses to environmental changes in grasses and insects during the Neogene grassland expansion. *Nature Communications*, 9: 5089
48. Lam A, **Toussaint EFA**, Kindler C, Van Dam MH, Panjaitan R, Roderick GK, Balke M (2018) Stream flow alone does not predict population structure of diving beetles across complex tropical landscapes. *Molecular Ecology*, 27(17): 3541–3554
47. Johns CA, **Toussaint EFA**, Breinholt JW, Kawahara AY (2018) Origin and macroevolution of micro-moths on sunken Hawaiian islands. *Proceedings of the Royal Society of London B*, 285: 20181047
46. Kawahara AY, Breinholt JW, Espeland M, Storer CG, Plotkin D, Dexter KM, **Toussaint EFA**, St Laurent RA, Brehm G, Vargas S, Forero D, Pierce NE, Lohman DJ (2018) Phylogenetics of moth-like butterflies (Papilionoidea: Hedylidae) based on a new 13-locus target capture probe set. *Molecular Phylogenetics and Evolution*, 127: 600–605
45. **Toussaint EFA**, Short AEZ (2018) Transoceanic stepping–stones between Cretaceous waterfalls? The enigmatic biogeography of pantropical *Oocyclus* cascade beetles. *Molecular Phylogenetics and*

Evolution, 127: 416–428

44. Kawahara AY, **Toussaint EFA** (2018) Conservation note on the status of the rare endemic Marquesan snout butterfly, *Libythea collettei*. *Proceedings of the Hawaiian Entomological Society*, 50: 25–34
43. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Dexter KM, Espeland M, Pierce NE, Lohman DJ, Kawahara AY (2018) Anchored phylogenomics illuminates the skipper butterfly tree of life. *BMC Evolutionary Biology*, 18: 101
42. Espeland M, Breinholt JW, Willmott KR, Vila R, **Toussaint EFA**, Maunsell SC, Aduse-Poku K, Talavera G, Eastwood R, Jarzyna MA, Ries L, Guralnick R, Lohman DJ, Pierce NE, Kawahara AY (2018) A comprehensive and dated phylogenomic analysis of butterflies. *Current Biology*, 28: 1–9
41. **Toussaint EFA**, Gillett CPDT (2018) Rekindling Jeannel’s Gondwanan vision? Phylogenetics and evolution of Carabinae with a focus on *Calosoma* caterpillar hunter beetles. *Biological Journal of the Linnean Society*, 123(1): 191–207
40. Short AEZ, Post D, **Toussaint EFA** (2017) Biology, distribution, and phylogenetic placement of the California endemic water scavenger beetle *Hydrochara rickseckeri* (Horn) (Coleoptera: Hydrophilidae). *The Coleopterists Bulletin*, 71(3): 461–467
39. **Toussaint EFA**, Short AEZ (2017) Biogeographic mirages? Molecular evidence for dispersal-driven evolution in Hydrobiusini water scavenger beetles. *Systematic Entomology*, 42(4): 692–702
38. Short AEZ, Cole J, **Toussaint EFA** (2017) Phylogeny, classification, and evolution of the water scavenger beetle tribe Hydrobiusini inferred from morphology and molecules (Coleoptera: Hydrophilidae: Hydrophilinae). *Systematic Entomology*, 42(4): 677–691
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 4. **Toussaint EFA**, Sagata K, Surbakti S, Hendrich L, Balke M (2013) Australasian sky islands act as a diversity pump facilitating peripheral speciation and complex reversal from narrow endemic to widespread ecological supertramp. *Ecology and Evolution*. 3(4): 1031–1049

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2. Hawlitschek O, Hendrich L, Espeland M, **Toussaint EFA**, Genner MJ, Balke M (2012) Pleistocene climate change promoted rapid diversification of aquatic invertebrates in South–East Australia. *BMC Evolutionary Biology*, 12: 142
1. **Toussaint EFA**, Condamine FL, Kergoat GJ, Capdevielle-Dulac C, Barbut J, Silvain J-F, Le Ru BP (2012) Palaeoenvironmental shifts drove the adaptive radiation of a noctuid stemborer tribe (Lepidoptera, Noctuidae, Apameini) in the Miocene. *PLoS ONE*, 7(7): e41377

BOOK CHAPTERS AND TECHNICAL PUBLICATIONS

2. **Toussaint EFA** (2024) Le Staphylin Bourdon *Emus hirtus* (Linnaeus, 1758). In : Blanc M, Rochet C (eds.) *Les Coléoptères du bassin genevois - Espèces représentatives de la faune régionale*. Éditions Faune Genève. Genève, 368 pp
1. Hendrich L, Hawlitschek O, **Toussaint EFA**, Tänzler R, Balke M (2014) Wiederfund des Schwimmkäfers *Graphoderus austriacus* (Sturm, 1834) in Bayern sowie weitere aktuelle Vorkommen von *Graphoderus bilineatus* (De Geer, 1774) im Gebiet des Starnberger Sees (Coleoptera: Dytiscidae, Noteridae, Hydrophilidae & Hydraenidae). *Nachrichtenblatt der bayerischen Entomologen*, 63(1/2): 19–28

ORAL PRESENTATIONS AND POSTERS (* invited)

35. **Toussaint EFA***. How to house types? What to do when types are lost? SSSDay (6th November 2025, Winthertour, Switzerland).
34. **Toussaint EFA***. Museomics using HyRAD-X exome target capture and applications at different evolutionary scales in Carabidae ground beetles. Séminaires d'Écologie et d'Évolution de Montpellier (26th January 2024, Montpellier, France)
33. **Toussaint EFA***. On the evolution of predaceous beetles. Biology24 (18th-19th January 2024, Zurich, Switzerland)
32. **Toussaint EFA***. Phylogenomics and evolution of Adephaga beetles. Alpine Ecology Laboratory (LECA) Seminars (6th October 2022, Grenoble, France)
31. **Toussaint EFA***. A perspective on butterfly evolution in Southeast Asia. 4th Southeast Asian Gateway Evolution Meeting (8th-12th August 2022, Manila, Philippines)
30. **Toussaint EFA***. Évolution des insectes, des temps géologiques à nos jours. Green Talks of the Institute for Environmental Sciences (22nd March 2022, Geneva, Switzerland)
29. **Toussaint EFA***. New horizons in insect phylogenomics. University of Geneva Department of Genetics and Evolution Virtual Seminar (11th June 2021, online)
28. **Toussaint EFA***. HyRAD phylogenomics sheds light on giant ground beetle evolution. Virtual Genomic Social Hour, California Academy of Sciences (12th June 2020, online).
27. **Toussaint EFA***. New frontiers in insect phylogenomics. Entomo.ch 2020 (6th-7th March 2020, Basel, Switzerland)
26. **Toussaint EFA***. À la découverte de l'évolution des papillons Charaxinae (Nymphalidae) à l'aide de l'ADN. Réunion mensuelle de la Société entomologique de Genève. Museum of Natural History (16th May 2019, Geneva, Switzerland)
25. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Espeland M, Pierce NE, Lohman DJ, Kawahara AY. Reconstructing a comprehensive tree-of-life for skippers (Lepidoptera, Hesperidae) using a combination of anchored phylogenomics, legacy data and museomics. 37th Meeting of the Willi Hennig Society (16th-20th September 2018, Barcelona, Spain)
24. **Toussaint EFA***. Macroevolutionary dynamics of insect biodiversity using integrative taxonomy and museomics. Museum of Natural History (29th June 2018, Geneva, Switzerland)
23. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Espeland M, Pierce NE, Lohman DJ, Kawahara AY. Skipper anchored phylogenomics: Progress toward a comprehensive evolutionary tree for an enigmatic family of butterflies. 8th International Conference on the Biology of Butterflies (11th-14th June 2018, Bangalore, India)
22. **Toussaint EFA***. Evolution of Charaxinae leafwing butterflies: A tale of Emperors, Forest Queens, Nawabs, Pashas and Rajahs. McGuire Center for Lepidoptera and Biodiversity Seminar (27th March 2018, Gainesville, USA)
21. **Toussaint EFA***. Mechanisms of lineage diversification in tropical butterflies. Frontiers in Insect Genomics (15th-22nd October 2017, Morelia, Mexico)

20. **Toussaint EFA***, Short A. Dwelling in Cretaceous waterfalls? Museum evolution of *Oocyclus* cascade beetles. 25th International Congress of Entomology (25th–30th September 2016, Orlando, USA)
19. **Toussaint EFA***. A water beetle's insights on Earth's geological history. 17th RJH Hintelmann award (15th January 2016, Munich, Germany)
18. **Toussaint EFA**, Short A. Deciphering the evolution of *Oocyclus* tropical waterfall beetles using Bayesian total evidence phylogenetics. Entomology 2015 - The Entomological Society of America 63rd Annual Meeting (14th–18th November 2015, Minneapolis, USA)
17. **Toussaint EFA***. Water beetles as an emerging model to study macroevolutionary processes. University of Alberta (23rd October 2015, Edmonton, Canada)
16. **Toussaint EFA***. Les coléoptères aquatiques, un nouveau modèle pour l'étude des processus macroévolutifs. Centre National de la Recherche Scientifique (11th September 2015, Gif-sur-Yvette, France)
15. **Toussaint EFA***. From molecular taxonomy to macroevolutionary pattern inference: a case study with the charismatic Nawab butterflies (Nymphalidae, Charaxinae, *Polyura*). Muséum National d'Histoire Naturelle (8th September 2015, Paris, France)
14. **Toussaint EFA***. Intégration des approches moléculaires pour l'étude de la systématique et des dynamiques macro-évolutives des insectes. Centre de Biologie et de Gestion des Populations (4th September 2015, Montpellier, France)
13. **Toussaint EFA***. Insects as a model to test macroevolutionary hypotheses in the Australasian archipelago. Museum of Zoology (20th May 2015, Barcelona, Spain)
12. **Toussaint EFA***. From molecular taxonomy and systematics to macroevolution in Lepidoptera. Zoological Research Museum Alexander Koenig (23rd October 2014, Bonn, Germany)
11. **Toussaint EFA***. Les insectes d'un clos-masure au cœur de la biodiversité. 31st European Heritage Days (20th–21st September 2014, Manoir du Catel, Ecretteville-lès-Baons, France)
10. **Toussaint EFA**, Morinière J, Müller CJ, Kunte K, Turlin B, Hausmann A, Balke M. Cryptic diversification of ornamental butterflies across tropical biodiversity hotspots. 7th International Conference on the Biology of Butterflies (11th–14th August 2014, Turku, Finland). (Poster)
9. **Toussaint EFA**, Hall R, Monaghan M, Sagata K, Ibalim S, Shaverdo HV, Vogler AP, Pons J, Balke M. The towering orogeny of New Guinea as a trigger for arthropod megadiversity. 10th European Congress of Entomology (3rd–8th August 2014, York, England)
8. **Toussaint EFA**, Condamine FL, Hawlitschek O, Watts CHS, Porch N, Hendrich L, Balke M. Unveiling the diversification dynamics of Australasian predaceous diving beetles in the Cenozoic. 33rd Meeting of the Willi Hennig Society (6th–10th July 2014, Trento, Italy)
7. **Toussaint EFA**, Condamine FL, Hawlitschek O, Watts CHS, Hendrich L, Balke M. Unveiling the diversification dynamics of Australasian predaceous diving beetles in the Cenozoic. International Biogeography Society Early Career Conference (7th–10th January 2014, Canberra, Australia)
6. **Toussaint EFA***, Hall R, Monaghan M, Sagata K, Ibalim S, Shaverdo HV, Vogler AP, Pons J, Balke M. Deciphering the origins of massive radiations in the New Guinean archipelago. Entomology 2013 - The Entomological Society of America 61st Annual Meeting (10th–13th November 2013, Austin, USA)

5. **Toussaint EFA***, Condamine FL, Hawlitschek O, Watts CHS, Hendrich L, Balke M. Evolutionary dynamics of beetles during the Australian drying-out. Entomology 2013 - The Entomological Society of America 61st Annual Meeting (10th–13th November 2013, Austin, USA)
4. **Toussaint EFA***, Balke M. Massive orogeny as a biodiversity pump for the emerging Papuan giant. 32nd Meeting of the Willi Hennig Society (3rd–7th August 2013, Rostock, Germany)
3. **Toussaint EFA**, Shaverdo HV, Hendrich L, Balke M. Deciphering the origins of massive radiations in the Indo–Australian archipelago - The New Guinean archipelago as a major diversity pump in Australasia. 2nd Southeast Asian Gateway Evolution Meeting (11th–17th March 2013, Berlin, Germany)
2. **Toussaint EFA**, Kergoat GJ, Capdevielle-Dulac C, Barbut J, Silvain J-F, Le Ru BP. Using a phylogenetic integrative approach to infer evolutionary patterns: Evolution, biodiversity and ecology of tropical African stem borer species of the subtribe *Sesamiina* (Lep. Noctuidae, Apameini). The 4th Printemps de Baillarguet (26th–27th May 2011, Montpellier, France)
1. **Toussaint EFA**, Kergoat GJ, Capdevielle-Dulac C, Barbut J, Silvain J-F, Le Ru BP. Using a phylogenetic integrative approach to infer evolutionary patterns: Evolution, biodiversity and ecology of tropical African stem borer species of the subtribe *Sesamiina* (Lep. Noctuidae, Apameini). LEGSeriales 2011 (30th–31st May 2011, Cernay-la-Ville, France)