

# Telma G. Laurentino

Evolutionary biologist  
Author and Educator

✉ [telma.laurentino@gmail.com](mailto:telma.laurentino@gmail.com)

🆔 0000-0001-7879-5251

🌐 [www.telmaql.com](http://www.telmaql.com)

Interested in multidisciplinary studies on Evolution, Holistic Inclusive Education and socioecological issues  
*Natural selection • Adaptation • Genetics • Multisensory education • Systems thinking • Belonging*

## Education

### Post-Doc

Sep. 2020 – Jan. 2023

### University of California, Berkeley, USA 🇺🇸

Research: *Genomics of rapid & repeated adaptation*

Supervision: Prof. Erica Rosenblum

### Ph.D.

Jul. 2016 – Apr. 2020

### University of Basel, Switzerland 🇨🇭

Dissertation: *Adaptation genomics of three-spine Stickleback fish*

Supervision: Dr. Daniel Berner & Prof. Walter Salzburger

*summa cum laude*

### MSc

Sep. 2012 – Sep. 2015

### Faculty of Sciences, University of Lisbon, Portugal 🇵🇹

Evolutionary biology and Development

Thesis: *Assessing the speciation continuum in the Iberian lizard *Timon lepidus**

Supervision: Prof. Octávio Paulo

*excellent*

### BSc

Sep. 2008 – Jun. 2012

### Faculty of Sciences, University of Lisbon, Portugal 🇵🇹

Biology - 3<sup>rd</sup> year specialization in EvoDevo

## Grants & Approved research projects

~151'000 USD in self-acquired funds

Nov. 2022

334 EUR

### APBE Outreach grant

*Evolution at the multisensory forest: searching for the common ancestors!*

In collaboration with the Lisbon school for the teaching of the blind, Helen Keller school

Apr. 2022

495 USD

### SSE grant for local and regional outreach

*The multisensory (hi)story of the White Sands lizards*

Host: New Mexico School for the Blind and Visually Impaired, USA

Oct. 2021

500 USD

### IB sci-comm mini-grants

*Multisensory outreach at the White Sands*

Co-organized with Maggie Grundler (UC Berkeley, USA)

Mar. 2021 - present

81'500 CHF

### SNSF Early Postdoc.Mobility fellowship (P2BSP3\_195698)

*"Dissecting the whole genome landscape of repeated rapid adaptation"*

Post-Doc

Rosenblum Lab, ESPM, UC Berkeley, USA

Oct. 2019

1420 EUR

### ESEB outreach initiative funds

*"To the bones!" An haptic experience of vertebrate evolution*

Co-authorship with Dr. Astrid Boehne (Museum Koenig, Germany)

Sep. 2019

317 CHF

### Travel grant from the University of Basel

For two oral presentations at ESEB 2019, Turku, Finland

Sep. 2019

33'086 CHF

### Nikolaus und Bertha Burckhardt-Bürgin Stiftung for PhD thesis completion

PhD research extension (additional 8 months)

Jun. 2019

230 EUR

### APBE Outreach grant

*"Game of Branches : Extinction is coming"*

Host: Hellen Keller inclusive school, Lisbon, Portugal

Feb. 2019 <b>1000 C HF</b>	<b>Travel grant from the Swiss Zoological Society (SZS)</b> For conference attendance
Feb. 2019 <b>1000 USD</b>	<b>SSE grant for local and regional outreach</b> <i>"evALLution: evolution for all, through multisensory activities"</i> Host: Association for the Teaching of the Blind, Lisbon, Portugal
Aug. 2018 <b>1087 CHF</b>	<b>Travel grant from the University of Basel</b> For an oral presentations at Stickleback'18, Kyoto, Japan
Jun. 2019 <b>500 EUR</b>	<b>APBE Outreach grant</b> <i>"evALLution: evolution for all!"</i> Host: Association for the Teaching of the Blind, Lisbon, Portugal
Mar. 2017 <b>8000 C HF</b>	<b>Career program antelope@university 20218</b> Excellence equity grant for skill development of female researchers
Sep. 2017 <b>710 C HF</b>	<b>Travel grant from the University of Basel</b> For an oral presentations at ESEB XVI, Groeningen, The Netherlands
Aug. 2015 <b>200 GBP</b>	<b>Travel scholarship from the British Ecology Society</b> For the TBA 2015 Tropical Ecology course, held in Uganda
Sep. 2013 <b>3000 EUR</b>	<b>ESEB organizer productivity prize</b> Totality of funds applied towards MSc genetic work
Oct. 2011 - Sep. 2012 <b>1900 EUR</b>	<b>Student research Grant Universidade de Lisboa/Fundação Amadeu Dias</b> <i>"Assessing the influence of Ranavirus on the Age structure of Bosca's newt using skeletochronology"</i> Host: CE3C – Center for Ecology, Evolution and Environmental Change, Lisbon, Portugal; Supervision: Dr. Gonçalo M. Rosa & Prof. Rui Rebelo
Jun. – Oct. 2011 <b>2500 EUR</b>	<b>FCT Technical assistant Grant</b> Genetics labwork and fish bioterium maintenance <i>"A genetic and environmental approach in the resolution of the sex paradox in the Squalius alburnoides complex"</i> Supervision: Prof. Dr. M. M. Coelho Trancoso & Dr. Isa Matos

## Teaching & Mentorship

Feb. 2023 - present <b>Educator Curriculum designer</b>	<b>Healing Living Systems</b> level: adult, all scholarship levels Depth education for biodiversity & socio-ecological awareness <a href="http://www.healinglivingsystems.org">www.healinglivingsystems.org</a>
Oct. 2022 <b>Educator</b>	<b>Introduction to DNA lab: from lizard tail to gene sequence</b> UC Berkeley, USA level: undergraduate Practical laboratory skills in DNA extraction & quantification, PCR and electrophoresis
Aug. – Nov. 2021 <b>Teacher</b>	<b>ESPM 139 " The Environment and the Self: and Eco practicum"</b> UC Berkeley, USA level: graduate Guided discussion and reflection on scientific and philosophical material on engaging with the environmental crisis
Mar. - Apr. 2018 <b>Supervisor</b>	<b>Block course of Zoology and Evolution</b> University of Basel, Switzerland Student level: senior year Biology BSc Supervision and guidance on project design, laboratory work and project presentation.
Apr. 2018 - Sep. 2019 <b>Supervisor</b>	<b>MSc research project co-supervisor (with Dr. Daniel Berner)</b> University of Basel, Switzerland Alicia Welti <i>'The genetic basis of lateral plate height in stickleback fish'</i>

Mar.-Apr.2018	<b>Block course of Zoology and Evolution</b> University of Basel, Switzerland Student level:senioryearBiologyBSc Supervision and guidance on project design, laboratory work and project presentation.
<b>Supervisor</b>	
May.2017-Sep.2018	<b>MSc research project assistant supervisor (with Dr. Daniel Berner)</b> University of Basel, Switzerland Mirjam Bissegger <i>'Widespread intersex differentiation across the stickleback genome –the signature of sexually antagonistic selection?'</i>
<b>Assistant supervisor</b>	
Oct.–Dec.2017	<b>General Biology "Einführung in die Biologie"</b> University of Basel, Switzerland Student level:1 <sup>st</sup> yearBiologyBSc Lectures on: molecular biology, heredity, cellular biology, development, ecology and evolution
<b>Educator</b>	
Oct.2015	<b>Introduction to population genomics – RADseq approaches</b> Faculty of Sciences, University of Lisbon, Portugal Student level: MSc in Computational biology & genomics 1 theoretical & practical lecture on population genomics and GWAS
<b>Educator</b>	

## Outreach activities

Jun.2022–Apr.2023	<b>ArtSci - Scientist consultant for Elana Gutman's art project "From Here"</b> Translation and research of scientific information to inspire the artist <a href="http://www.elanagutmannstudio.com">www.elanagutmannstudio.com</a>
<b>GENERAL PUBLIC</b>	
Jan./Feb./Oct. 2022	<b>Skype a Scientist</b> Virtual interactive lectures about the tree of life - adapted to class-specific 3 <sup>rd</sup> grade curriculum
<b>2nd &amp; 3rd GRADERS</b>	
Sep.2021	<b>A Scientist just like me!</b> Primary Science Teaching Trust, UK <i>Virtual project to raise awareness of diversity in science-related jobs and to provide illustrated examples of a wide range of science-based careers</i>
<b>GENERAL PUBLIC</b>	
Jul.2021	<b>Feeling the White Sands' history</b> New Mexico School for the Blind, USA <i>Production of multisensory scripts for inclusive guided tours to the white sands national park</i>
<b>CHILDREN WITH BLINDNESS</b>	
Jun.2021	<b>The artistic Tree of Life</b> Hellen Keller inclusive school, Portugal <i>Virtual project of building a phylogeny with students' artistic depictions of endangered species and discussion of speciation &amp; common ancestry</i>
<b>MIDDLE SCHOOL</b>	
Feb.2021	<b>"I'm a Scientist" – virtual public gallery</b> To celebrate the international day of girls and women scientists & Black history month <b>@1mascientist</b> on Instagram
<b>GENERAL PUBLIC</b>	
Apr.2020	<b>Skype a Scientist (COVID-19 relief efforts)</b> Interactive virtual lectures with children (5 to 12 y.o.)
<b>CHILDREN</b>	
Apr.2020	<b>Writer for Nature Ecology and Evolution 'Behind the paper' blog</b> Article titled "Chasing Selection"
<b>GENERAL PUBLIC</b>	
Jun.2018*	<b>evALLution: a multisensory tree-of-life</b> Grant holder, project designer and main organizer of multisensory activities, making fundamental evolution concepts accessible to the blind community (*ongoing: collabs so far: Association for the Teaching of the Blind; Helen Keller school)
<b>PEOPLE WITH BLINDNESS</b>	
Apr.2020	<b>Writer for the SSE (Society for the Study of Evolution) Community Blog</b> <i>"evALLution: 3 lessons the blind community taught us about inclusive teaching of evolution"</i>
<b>GENERAL PUBLIC</b>	

May.2017 to  
Apr.2019

**GENERAL PUBLIC**

May.2012

**GENERAL PUBLIC**

Jun.2011 to  
Mar.2015

**PRIMARY SCHOOL**

**Writer and creative for SciFive the University of Basel Medium platform** Several written articles and outreach comic book design  
<https://medium.com/@telma.laurentino>

**Public communication**

*"Society without biodiversity: a XXI century dystopia"*  
Faculty of Sciences of the University of Lisbon.

**Didactic activities on biodiversity, nature conservation and evolution**

Main focus: reptiles, amphibians, evolution  
Public: children (3-10y.o.)  
EB1/JI Jorge Mineiro, Portugal

**Invited talks & lectures**

Jan.2024

**Polytechnic Institute, Superior school of technology of Barreiro, Portugal**

Invited lecturer for undergraduate course 'Perspectives in Bioformatics'  
*"Genomic details / Life overviews: How genomics informs our understanding of the evolution of biodiversity and society"*

Nov. 2023

**Faculty of Science, University of Lisbon, CE3C**

Poster design lecture (theory & practice) for the *MSc in Human Biology and Environment*

Oct. 2023

**Southwest Word Fiesta, New Mexico**

Invited author for the 'outdoors' author panel  
*"Do we go into nature as intruders, or as human nature?"*

Mar. 2023

**Natural History Museum, Basel, Switzerland**

Wissenschaftsrunde – museum seminar  
*"From Wonder to DNA, and back: How studying the evolution of biodiversity contributes to creating inclusive education"*

Jan. 2023

**Polytechnic Institute, Superior school of technology of Barreiro, Portugal**

Invited lecturer for undergraduate course 'Perspectives in Bioformatics'  
*"From Ecosystem to DNA, and back: bioinformatics as a language to decode the evolution of biodiversity"*

Jan. 2022

**Faculty of Science, University of Lisbon, CE3C**

Seminars in Evolutionary Biology and Development (MSc)  
*"Into the genomic wild! What can we learned about natural selection from a release-recapture experiment"*

Oct. 2019

**Federal University of Viçosa, Brazil**

Invited seminar  
*"Evolutionary forces and biodiversity – the role of Selection"*

Oct. 2018

**Museum of Vertebrate Zoology @ Berkeley University, California**

MVZ lunch seminar  
*"Observing evolution: Adaptation stories told by the genomes of lizards and stickleback fish"*

Apr. 2016

**Zoological Institute @ University of Basel, Switzerland**

Invited seminar  
*"Dorsos are green, eyespots are blue, does natural selection shape you?"*

**Conference contributions**

Dec. 2021

**TALK**

**XVII ENBE 2021, Portugal (virtual)**

*"evALLution: translating evolution into touch, making evolution accessible for people with blindness"*

Aug. 2019

**TALKS**

**ESEB 2019, Turku, Finland**

I) *"Wild wild test: Release-recapture genomic experiment reveals within-generation polygenic adaptation in stickleback fish"*  
II) *"evALLution: Can we make fundamental evolution concepts accessible to the blind community?"*

Jul. 2018

**TALK**

**Stickleback'18, Kyoto, Japan**

*"Watching evolution: Exploring the tempo and mode of adaptation by combining historical and real-time genomic shifts in lake-stream stickleback"*

Aug. 2017

**TALK**

**ESEB 2017, Groningen, The Netherlands**

*"Into the genomic wild: exploring real-time selective allele frequency shifts in stickleback through a release experience"*

Feb. 2017

**POSTER**

**Biology'17, Bern, Switzerland**

*"Into the genomic wild: exploring real-time selective allele frequency shifts in stickleback through a release experience"*

Feb. 2016  
**TALK**

**Biology'16, Lausanne, Switzerland**

*"Dorsos are green. Eyespots are blue. Does natural selection shape you?"*

Dec. 2015  
**POSTER**

**XI ENBE, Lisbon, Portugal**

*"May the Selection be with you" The interplay of evolutionary forces in the speciation of *Timon lepidus*"*

Dec. 2014

**POSTER\***  
*Best poster award*

**CE3C junior researcher meeting, Lisbon, Portugal**

*"Dorsos are green. Eyespots are blue. Does natural selection shape you?"*

Dec. 2012

**POSTER**

**TiBE: Integrative Approaches in Evolutionary Biology, Porto, Portugal**

*"Influence of Ranavirus on the age structure of Bosca's newts (*Lissotriton boscai*)"*

### Conference organization

Apr. 2016

**Darwin's legacy tea party @ Faculty of Sciences, University of Lisbon**

Main organizer, Fund raiser, scientific content curator, delegate assistance, event outreach Content: 6 multidisciplinary talks, final debate [https://www.youtube.com/watch?v=Z6dxix3\\_RW4&t=114s](https://www.youtube.com/watch?v=Z6dxix3_RW4&t=114s)

Oct. 2015

**Public debate: Does evolutionary theory need a re-think?**

Main organizer, delegate assistance, event outreach and promotion  
[https://www.youtube.com/watch?v=I39d\\_Fortzq&t=23s](https://www.youtube.com/watch?v=I39d_Fortzq&t=23s)

Apr. 2015

**Darwin's legacy tea party @ Faculty of Sciences, University of Lisbon**

Main organizer, Fund raiser, scientific content curator, delegate assistance, event outreach Content: 13 multidisciplinary talks, book presentation, final debate

Jul.–Sep. 2013

**XIV ESEB – European Society for Evolutionary Biology, Lisbon, Portugal**

Congress staff, signage design, childcare service, poster-printing service, collaborators team supervisor (30 people) and delegate assistance

### Books

***A love letter FROM THE FOREST to you, through me***

*Mercury heart link publishing, USA; April 2022 (ISBN 978-1949652192)*

A nature memoir based on fieldwork learnings aiming to bring the public closer to biodiversity and evolutionary common ancestry

### Scientific Peer-reviewed Publications

- Orton M, Eifler D, Eifler M, Utsumi K, **Laurentino TG**, Siddiqui D, Haddock J, Quock R  
***Holbrookia maculata* space use in the Salt Basin Dunes of the Guadalupe Mountains National Park**  
accepted in Herpetological Review
- Harer A, Mauro AA, **Laurentino TG**, Rosenblum EB, Rennison DJ  
***Gut microbiota parallelism and divergence associated with colonisation of novel habitats***  
*Molecular ecology* (2023) 32:5661–5672
- **Laurentino TG**, Dittmer DE, Grundler M, Pina-Martins F, Haddock J, Hibbitts TJ, Rosenblum EB  
***Repeated evolution of blanched coloration in a lizard across independent white-sand habitats***  
*Ecology & Evolution* (2022) 12:e9555
- **Laurentino TG**, Boileau N, Ronco F, Berner D  
***The EDA receptor (EDAR) is a candidate gene for lateral plate number variation in stickleback fish***  
*G3: Genes, Genomes, Genetics* (2022) 12:6
- **Laurentino TG**, Xavier M, Ronco F, Pina-Martins F, Domingues I, Penha B, Dias M, de Sousa A, Carrilho T, Rodrigues L, Pinheiro C\*, Rato D\*, Balata D\*, Ayala G\*, Matos M M\*, Campelo M\*, Botelho R\*  
***evALLution: making basic evolution concepts accessible to people with visual impairment through a multi-sensory tree of life***  
*Evolution: education and outreach* (2021) 14:5; \*Equal contribution
- Haenel Q, Oke KB, **Laurentino TG**, Hendry AP, Berner D  
***Clinal genomic analysis reveals strong reproductive isolation across a steep habitat transition in stickleback fish***  
*Nature Communications* (2021) 12, 4850
- **Laurentino TG**, Moser D, Roesti M, Ammann M, Frey A, Ronco F, Kueng B, Berner D  
***Genomic release-recapture experiment in the wild indicates within-generation polygenic selection in stickleback fish***  
*Nature Communications* (2020) 11, 1928
- Bissegger M, **Laurentino TG**, Roesti M, Berner D  
***Widespread intersex differentiation across the stickleback genome – the signature of sexually antagonistic selection?***  
*Molecular ecology* (2019) 29(2), 262-271
- **Laurentino TG**, Baur J, Usui T, Eichhorn M  
***Liana abundance and relationships to sapling and tree hosts in an East African Primary Forest***  
*African journal of ecology* (2019) 57(1), 130-136

- Zéle F1, Matos G1, Figueiredo A, Eira C, Pinto C, **Laurentino TG**, Sucena E2, Magalhães S2  
**Spider mites escape bacterial infection by avoiding contaminated food**  
*Oecologia* (2019) 189(1), 111–122; <sup>1</sup> co-first authorship; <sup>2</sup> co-last authorship
- Silva SE, Seabra SG, Carvalheiro LG, Nunes VL, Marabuto E, Mendes R, Rodrigues ASB, Pina-Martins F, Yurtsever S, **Laurentino TG**, Figueiredo E, Rebelo MR, Paulo OS  
**Population genomics of *Bombus terrestris* reveals high but unstructured genetic diversity in a potential glacial refugium**  
*Biological Journal of the Linnean Society* (2019) blz182
- **Haenel Q\***, **Laurentino TG\***, Roesti M, Berner D  
**Meta- analysis of chromosome-scale crossover rate variation in eukaryotes and its significance to evolutionary genomics**  
*Molecular ecology* (2018) 27 (11), 2477-2497  
\*co-authorship, alphabetical order  
**top 10% of most read papers in *Molecular Ecology* (2018-2019)**
- Seabra S, Nunes VL, Sousa VC, Martins J, Marabuto E, Rodrigues AS, Pina-Martins F, **Laurentino TG**, Rebelo MT, Figueiredo E, Paulo OS  
**Genomic signatures of introgression between commercial and native bumblebees, *Bombus terrestris*, in western Iberian Peninsula – implications for conservation and trade regulation**  
*Evolutionary applications* (2018)
- Costa GJ, Nunes VL, Marabuto E, Mendes R, **Laurentino TG**, Quartau JA, Paulo OS, Simões P  
**Morphology, songs and genetics identify two new cicada species from Morocco : *Tettigettalna afroamissa* sp. nov. and *Berberigetta dimelodica* gen. nov. & sp. nov. (Hemiptera: Cicadettini)**  
*Zootaxa* (2017) 4237(3), 517-544
- Rosa GM, Sabino-Pinto J, **Laurentino TG**, Martel A, Pasmans F, Rebelo R, Griffiths RA, Stöhr AC, Marschang RE, Price SJ, Garner TWJ, Bosch J  
**Impact of asynchronous emergence of two lethal pathogens on amphibian assemblages** *Scientific Reports*(2017) 7, 43260
- **Laurentino TG**, Pais MP, Rosa GM  
**From a local observation to a european-wide phenomenon: Amphibian deformities in Serra da Estrela Natural Park, Portugal**  
*Basic and Applied Herpetology* (2016) 30, 7-23
- Rosa GM, **Laurentino TG**, Madeira M  
**Field observation of foraging behavior by a group of adult diving beetles *Agabus (Gaurodytes) bipustulatus* preying on an adult *Lissotriton boscai*.**  
*Entomological Science*(2012) 15: 343-345

**Peer reviewing work for:** Herpetological Notes; Ecology and Evolution

## Courses and Workshops

July. 2023	<p><b>Sensing harm by design online</b> 6-week depth education course on decolonization tools to expand capacity to navigate increasing volatility, uncertainty, complexity and ambiguity. <i>Gesturing Towards Decolonial Futures, Collective of social and biological scientists, educators &amp; artists</i></p>
Nov. 2022	<p><b>Rewilding mythology online</b> 8-week course on the relationships between myth, sociology, politics, natural history and belonging <i>Sophie Strand, David Abram, Anoor Ladha, Toko-pa Turner, Patricia Kaishian, Minna Salami, Bayo Akomolafe</i></p>
Oct. 2022	<p><b>Pathways to Scientific Teaching with Diane Ebert-May @UCBerkeley</b> Student-centered, active, 3D learning for large scale introductory STEM classes</p>
Aug. 2022	<p><b>Return of the Matriarchs: Healing Water series @UCBerkeley</b> Black elders, healers, and educators teaching the intersections of land, ethnobotanics, ritual, and health</p> <ul style="list-style-type: none"> <li>• Herbs as medicine: the story of Osain by Nedra Williams</li> <li>• Storytelling and land ritual: Orisha Oko and the African Agricultural tradition by Luisa Teish</li> </ul>
Oct. 2021	<p><b>Othering and Belonging 2021 conference workshops</b></p> <ul style="list-style-type: none"> <li>• Cultural strategies for belonging + Breaking Patterns &amp; Heirlooms and Accessories: Using Arts to Look at Lineage and Narrative (<i>Studio Pathways</i>)</li> </ul>
Aug. 2021	<p><b>Authentic academic online</b> Guided reflections for a transformative and inclusive academic culture (<i>Prof. Bree Rosenblum</i>)</p>
Apr. 2021	<p><b>Science Storytelling online</b> Berkeley SciComm, University of California, Berkeley, USA</p>
Mar. – Oct. 2018	<p><b>Antelope@University workshops</b></p> <ul style="list-style-type: none"> <li>• How to become a more efficient researcher (<i>Tress &amp; Tress GbR</i>)</li> <li>• Negotiate with success (<i>Negoservices, Inc</i>)</li> <li>• Action! The making of a video abstract (<i>Hoppenhaus &amp; Grunze</i>)</li> </ul>

Jun. 2017

### Evolutionary Biology in Guarda

University of Basel and ETH, Switzerland  
Evolution • Project design • Grant proposal writing

Aug. 2015

### Tropical Ecology field course, Uganda

Tropical Biology Association, Kibale research station & Queen Elizabeth National Park  
Tropical Ecology • Data collection • Project design • Data analysis

Aug. 2014

### EcoEvoDevo summer school

Department of Biological and Medical Sciences, Oxford Brookes University  
EvoDevo theory • Field work • CRISPR/Cas9 • In situ hybridization

## Honors & Awards

- **Direction board member** for APBE-Portuguese Association of Evolutionary Biology (2023 - present)
- **Invited spokesperson** for APBE-Portuguese Association of Evolutionary Biology (2015)
- **Elected student representative** for the MSc in Evolutionary Biology and Development (2012-2014)
- 2022 Berkeley Rausser College **photo contest winner** [Link](#)
- SSE **Sponsorship Highlight** (2019) [Link](#)
- First author of one of the **most read papers of Molecular Ecology** (2018-2019)
- **Best poster award** @ CE3C junior research meeting (2014)

## Media engagement

Aug. 2023 – presente  
[Vento e Água magazine](#)

Columnist on socio-ecologic issues and ecosystemic awareness for the Portuguese online magazine *Vento e Água - Ritmos da Terra*  
[Link](#)

Mar. 2023  
[Marfa public radio](#)

Radio program "Nature notes" featuring PostDoc research on local desert lizards  
[Link](#)

Apr. 2021  
[Expresso do Oriente](#)

Newspaper article featuring evALLution work with people with blindness  
[Link](#)

Apr. 2020  
[Science Daily](#)

Article featuring PhD research work on genomics of adaptation in stickleback fish  
[Link](#)

Nov. 2019  
[TIME](#)

Tweet feature on *Time* article on Climate Strike "Fridays for future"  
[Link](#)

Feb. 2013 & Mar. 2017  
[Terras da Beira](#)

Newspaper article featuring research on local amphibian epidemiology  
'13 [Link](#) '17 [Link](#)

## Additional skills

### Languages

**Portuguese** native • **English** C2

**Spanish** B1 • **German** A1+

**R>Unix shell >Slurm >Python**  
user in bioinformatics context  
(Data parsing and analysis)

### Lab

**Genomics** (Rad & Poolseq)

**Genetics** (PCR, primer design, Sangerseq...)

**Skeletochronology, CT scanning, 3D printing, collection specimen prep.** (Basics)

### Field

**Lizards** (tomahawk traps & lasso)

**Birds** (>50 ringed passerines) **Fish**  
(Electrical, rod, underwater gillnet and minnow trap)

**Arthropods** (net sampling: butterflies, bumblebees, cicadas)

**Amphibians** (net sampling, Chytrid swabbing)

**Certified in field hygiene protocols & ethical handling of field and laboratory animals (rat, mouse, reptiles, amphibians).**



(510) 365-9203



[telma.laurentino@gmail.com](mailto:telma.laurentino@gmail.com)



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