

Alexa Sadier, PhD

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KEY WORDS

Eco-evo-devo, teeth, development, bats, GRNs, developmental bias, constraints

CURRENT POSITION

2017-present **Postdoctoral research associate – Assistant Project Scientist**
Developmental rules behind teeth development in bats
Evo-Devo of sensory adaptations in Noctilionoid bats
University of California, Los Angeles
Advisor: Karen Sears

EDUCATION AND RESEARCH POSITIONS

2015-2017 **Postdoctoral research associate**
Evo-devo of sensory adaptation in Noctilionoid bats
University of Illinois at Urbana-Champaign, Illinois, Advisor: Pr. Karen Sears

2014 **Postdoctoral scholar short-term**
Ecole Normale Supérieure de Lyon, IGFL, Postdoctoral research position, 4 months

2009-2013 **PhD in Evolutionary and Developmental Biology – Molecular Zoology group**
Ecole Normale Supérieure de Lyon, IGFL, France
Thesis: “Evo-devo of the Eda pathway, from the evolution of signaling to the establishment of shape”. Advisors: Pr. Vincent Laudet and Dr. Sophie Pantalacci
Highest honors and felicitations from the committee

2007-2008 **Master 2 “high school and higher education”/Préparation à l’agrégation**
Ecole Normale Supérieure de Lyon, France, highest educational degree for highschool and undergrad education in Biology and Geology. Major: A, Molecular Biology
Agrégation: admissible; CAPES: admitted, position offered, **national ranking 4/3393**

2008-2009 **Master “research” Biosciences**
2006-2007 Ecole normale supérieure de Lyon, IGFL Master 1 and 2 - **With honors**
Theses: “Alternative isoforms of the *Edaradd* gene in evolution” and “The cryptic species diversity of the genus *Proasellus*”. Advisors: Sophie Pantalacci and Vincent Laudet (2008-2009) and Christophe Douady (2006-2007)

2005-2006 **Licence in Molecular and Cellular Biology**
Ecole normale supérieure de Lyon, France – EU equivalent of Bachelor, 2 months lab experience – published research (see MBE 2008)
Supervisor: Sophie Pantalacci

AWARDS AND GRANTS

2021 **UCLA Chancellor’s award for postdoctoral research – awardee**

The Chancellor's Award for Postdoctoral Research recognizes the 10 most important contributions (among the ~1400 postdocs from all disciplines) that postdoctoral scholars make to UCLA's research mission – **7500\$**
<https://www.postdoc.ucla.edu/chancellors-award-for-postdoctoral-research/>

2020 NSF IOS grant - Leader investigator of the project - Collaborators: PIs Karen Sears (UCLA), Sharlene Santana (UW) and Paul François (Mc Gill)
Starting July 2020 – **600 k\$**

2020 iBiology Young Scientists Seminar Award – winner
Talk available here: <https://www.ibiology.org/evolution/bat-vision/>

2017 MBI workshop travel grant – 600\$

2012 Grant ARC (Research against Cancer Association) Foundation

Awarded a project on the role of EDAR in cancer – One year of full support ~20k €

2009 Teaching fellowship – “monitorat”

Extra salary for teaching activities including: TA, full lectures and full courses teaching and conception – 80h/year ~ 7.75k €/year

2009 MRT PhD fellowship

Supporting 3 years of salary for research - Ranked 3/50 (15/50 were awarded) ~12.25k €/year

PUBLICATIONS

*: equal contributions

Research articles in BioRxiv, submitted or accepted:

Sadier Alexa, Andrew Krause, Dessalles Renaud, Lake Michael, Bentolila Laurent, Nieves Natalie, Santana Sharlene and Karen Sears *bioRxiv*, 2021

Gregory L. Mutumi, Ronald P. Hall, Brandon P. Hedrick, Laurel R. Yohe, **Alexa Sadier**, Kalina T.J. Davies, Liliana M. Dávalos, Stephen J. Rossiter, Karen E. Sears and Elizabeth R. Dumont Disentangling biomechanical and sensory modules in a hyper-diverse radiation *in review* **The Am Naturalist**

Neal Anthwal*, Daniel Urban*, **Alexa Sadier**, Risa Takenaka, Simon Spiro, Nancy Simmons, Karen Sears Control of Morphological Variation and Molecular Initiation of Novel Chiropteran Wing Membranes are Revealed by Embryonic Developmental Processes *in revision* **BMC Biology**

Yohe LR, Fabbri M, Lee D, Davies KTJ, Yohe TP, Sánchez MKR, Rengifo EM, Hall R, Mutumi G, Hedrick BP, **Sadier A**, Simmons NB, Sears KE, Dumont E, Rossiter SJ, Bullar B-AS, Dávalos LM. Ecological constraints on highly evolvable olfactory receptor genes and morphology, **Evolution** *accepted*

Sharlene Santana*, Dave Grossenickle*, **Alexa Sadier*** (co-first), Edward Patterson, Karen Sears Bat dentitions: a model system for studies at the interface of development, biomechanics, and evolution **Integrative and Comparative Biology**, *accepted*

Published:

Research articles:

2021

Hall, R.P., Mutumi, G.L., Hedrick, B.P., Yohe, L.R., **Sadier, A.**, Davies, K.T.J., Rossiter, S.J., Sears, K., Dávalos, L.M. and Dumont, E.R. (2021), Find the food first: An omnivorous sensory morphotype predates biomechanical specialization for plant based diets in phyllostomid bats. **Evolution**.

<https://doi.org/10.1111/evo.14270>

Nojiri T, Wilson LAB, López-Aguirre C, Tu VT, Kuratani S, Ito K, Higashiyama H, Son NT, Fukui D, **Sadier A**, Sears KE, Endo H, Kamihori S, Koyabu D. 2021. Embryonic evidence uncovers convergent origins of laryngeal echolocation in bats. **Current Biology** 31:1353-1365.e3.

<https://doi.org/10.1016/j.cub.2020.12.043>

2020

Hedrick BP, Mutumi GL, Munteanu VD, **Sadier A**, Davies KTJ, Rossiter SJ, Sears KE, Dávalos LM, Dumont E. 2020. Morphological Diversification under High Integration in a Hyper Diverse Mammal Clade. *J Mammal Evol* 27:563–575 <https://doi.org/10.1007/s10914-019-09472-x>

Vial, J., Royet, A., Cassier, P., Tortereau, A., Dinvaut, S., Maillet, D., Gratadou-Hupon, L., Creveaux, M., **Sadier, A.**, Tondeur, G., et al. (2019). The Ectodysplasin receptor EDAR acts as a tumor suppressor in melanoma by conditionally inducing cell death. *Cell Death Differ* 26, 443–454. <https://doi.org/10.1038/s41418-018-0128-1>

2019

Sadier, A., Twarogowska, M., Steklikova, K., Hayden, L., Lambert, A., Schneider, P., Laudet, V., Hovorakova, M., Calvez, V., and Pantalacci, S. (2019). Modeling Edar expression reveals the hidden dynamics of tooth signaling center patterning. *PLoS Biol* 17, e3000064 <https://doi.org/10.1371/journal.pbio.3000064>

2018

Sadier*, A., Davies*, K.T., Yohe, L.R., Yun, K., Donat, P., Hedrick, B.P., Dumont, E.R., Dávalos, L.M., Rossiter, S.J., and Sears, K.E. (2018). Multifactorial processes underlie parallel opsin loss in neotropical bats. *Elife* 7. <https://elifesciences.org/articles/37412>

Hedrick, B.P., Yohe, L., Vander Linden, A., Dávalos, L.M., Sears, K., **Sadier, A.**, Rossiter, S.J., Davies, K.T.J., and Dumont, E. (2018). Assessing Soft-Tissue Shrinkage Estimates in Museum Specimens Imaged With Diffusible Iodine-Based Contrast-Enhanced Computed Tomography (diceCT). *Microsc Microanal* 24, 284–291. <https://doi.org/10.1017/s1431927618000399>

Before 2018

Urban, D.J., Anthwal, N., Luo, Z.-X., Maier, J.A., **Sadier, A.**, Tucker, A.S., and Sears, K.E. (2017). A new developmental mechanism for the separation of the mammalian middle ear ossicles from the jaw. *Proc Biol Sci* 284. <https://doi.org/10.1098/rspb.2016.2416>

Gibert, Y., Samarut, E., Pasco-Viel, E., Bernard, L., Borday-Birraux, V., **Sadier, A.**, Labbe, C., Viriot, L., and Laudet, V. (2015). Altered retinoic acid signalling underpins dentition evolution. *Proc Biol Sci* 282. <https://royalsocietypublishing.org/doi/10.1098/rspb.2014.2764>

Sadier, A., Lambert, E., Chevret, P., Decimo, D., Semon, M., Tohme, M., Ruggiero, F., Ohlmann, T., Pantalacci, S., and Laudet, V. (2015). Tinkering signaling pathways by gain and loss of protein isoforms: the case of the EDA pathway regulator EDARADD. *BMC Evol Biol* 15, 129. <https://doi.org/10.1186/s12862-015-0395-0>

Pantalacci, S., Chaumot, A., Benoit, G., **Sadier, A.**, Delsuc, F., Douzery, E.J.P., and Laudet, V. (2008). Conserved features and evolutionary shifts of the EDA signaling pathway involved in vertebrate skin appendage development. *Mol Biol Evol* 25, 912–928. <https://doi.org/10.1093/molbev/msn038>

Review articles:

2022

Sadier A., Sears, K. and Womack, M. Unravelling the heritage of lost traits, *J Exp Part B*. <https://doi.org/10.1002/jez.b.23030>

2021

Aidan O Howenstine, **Alexa Sadier**, Neal Anthwal, Clive LF Lau, Karen E Sears, Non-model systems in mammalian forelimb evo-devo, *Current Opinion in Genetics & Development*, Volume 69, 2021, Pages 65-71, <https://doi.org/10.1016/j.gde.2021.01.012>

Sadier A, Urban DJ, Anthwal N, Howenstine AO, Sinha I, Sears KE, Sadier A, Urban DJ, Anthwal N, Howenstine AO, Sinha I, Sears KE. 2020. Making a bat: The developmental basis of bat evolution. *Genetics and Molecular Biology* <http://dx.doi.org/10.1590/1678-4685-gmb-2019-0146>

2020

Sadier A., Santana S., Sears K. The role of core and variable Gene Regulatory Network modules in tooth development and evolution (2020) **Integrative and Comparative Biology**, icaa116 <https://doi.org/10.1093/icb/icaa116>

Sadier, A., Jackman, W.R., Laudet, V and Gibert, Y. Vertebrate tooth type: is it signaled by a single organizing tooth? (2020) **BioEssays** 42 (6), 1900229 <https://doi.org/10.1002/bies.201900229>

C Darrin Hulsey, Karly E Cohen, Zerina Johanson, Nidal Karagic, Axel Meyer, Craig T Miller, **Alexa Sadier**, Adam P Summers, Gareth J Fraser (2020) Grand Challenges in Comparative Tooth Biology **Integrative and Comparative Biology** icaa038 <https://doi.org/10.1093/icb/icaa038>

Before 2020

Sears, K., Maier, J.A., **Sadier, A.**, Sorensen, D., and Urban, D.J. (2018). Timing the developmental origins of mammalian limb diversity. **Genesis** 56. <https://doi.org/10.1002/dvg.23079>

Sadier, A., Viriot, L., Pantalacci, S., and Laudet, V. (2014). The ectodysplasin pathway: from diseases to adaptations. **Trends Genet** 30, 24–31. <https://doi.org/10.1016/j.tig.2013.08.006>

BOOK CHAPTERS

Sadier, A., Soukup V. Initiation and periodic patterning of vertebrate dentitions In chapter in “Odontodes: The Developmental and Evolutionary Building Blocks of Dentitions”, *submitted*

Sadier, A. (2019). How Do Gene Networks Promote Morphological Evolution. In Old Questions and Young Approaches to Animal Evolution, J.M. Martín-Durán, and B.C. Vellutini, eds. (Cham: Springer International Publishing), pp. 209–234.

Sadier, A.A. (2016). Regulatory and Coding Changes in Developmental Evolution, Roles of. In Encyclopedia of Evolutionary Biology, R.M. Kliman, ed. (Oxford: Academic Press), pp. 433–440.

CONFERENCE PRESENTATIONS

PanAmEvoDevo-SDB 2022 – oral communication – invited speaker Sadier Alexa, Dave Grossenickle, Sharlene Santana and Karen Sears Understanding the developmental foundation of extreme diversification of bat teeth

EuroEvoDevo 2022 – oral communication: Sadier Alexa, Dave Grossenickle, Sharlene Santana and Karen Sears Understanding the developmental foundation of extreme diversification in bat molars

SICB 2022 – oral communication – oral communication: Sharlene Santana*, Dave Grossenickle*, Alexa Sadier* Bat dentitions: a model system for studies at the interface of development, biomechanics, and evolution

2nd Asia Evo conference – oral communication - invited speaker August 2021: Sadier Alexa, Sharlene Santana, Paul François and Karen Sears Understanding the GRN behind bat molar extreme diversification

Bat1K symposium batellite meeting – oral communication: Sadier Alexa, Sharlene Santana, Paul François and Karen Sears Understanding the GRN behind bat molar extreme diversification

SRC Pop-up Early career symposia 2020 / evo-devo – oral communication – invited speaker: Sadier Alexa, Andrew Krause, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Bat teeth at the cusp: Finding new rules for the patterning of post-canine teeth in mammals

SICB 2020 – oral communication – invited speaker: Sadier Alexa, Krause Andrew, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Finding new rules for the patterning of post-canine teeth in mammals

TMD 2019 – oral communication: Sadier Alexa, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Finding new rules for the patterning of post-canine teeth in mammals: insights from Noctilionoid bats

ICVM 2019 – oral communication – invited speaker: Sadier Alexa, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Finding new rules for the patterning of post-canine teeth in mammals: insights from Noctilionoid bats

- NASBR 2018 – oral communication:** Sadier Alexa, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Finding new rules for the patterning of post-canine teeth in mammals: insights from Noctilionoid bats
- NASBR 2018 – poster:** Sadier, Alexa; Sears, Karen New developmental constrained for the establishment of the molar row in Noctilionoid bats Deciphering genomic and developmental mechanisms that underlie vision adaptations in noctilionoid bats
- EuroEvoDevo 2018 – oral communication:** Sadier Alexa, Dessalles Renaud, Nieves Natalie, Santana Sharlene and Karen Sears Finding new rules for the patterning of post-canine teeth in mammals: insights from Noctilionoid bats
- LASDB 2017 – oral communication:** Sadier Alexa, Santana Sharlene and Karen Sears Establishing dental patterning in noctilionoid bats
- PanAmEvoDevo 2017 - oral communication:** Sadier, Alexa; Davalos, Liliana; Dumont, Elizabeth; Rossiter, Stephen; Sears, Karen Deciphering genomic and developmental mechanisms that underlie vision adaptations in noctilionoid bats
- PanAmEvoDevo 2017 - poster:** Sadier, Alexa; Sears, Karen New developmental constrained for the establishment of the molar row in Noctilionoid bats Deciphering genomic and developmental mechanisms that underlie vision adaptations in noctilionoid bats
- Morphogenesis workshop MBI 2017 - poster:** Sadier, Alexa; Santana Sharlene, Sears, Karen Modeling the developmental foundations of adaptive radiation
- EuroEvoEvo 2016 - oral communication:** Sadier, Alexa; Davalos, Liliana; Dumont, Elizabeth; Rossiter, Stephen; Sears, Karen Deciphering genomic and developmental mechanisms that underlie vision adaptations in noctilionoid bats
- PanAmEvoEvo 2015 - poster:** Sadier A, Lambert E, Chevret P, Décimo D, Semon M, Tohmé M, Ruggiero F, Ohlman T, Pantalacci S, Laudet V. Tinkering signaling pathways by gain and loss of protein isoforms: the case of the EDA pathway regulator EDARADD.
- SMBE 2013 - oral communication:** Sadier A, Pantalacci S, Besson M, Ohlmann T, Pantalacci S and Lauvet V How conserved signaling pathways drive diversification: lessons from a phylogenetic-functional approach
- TMD Tooth morphogenesis and differentiation 2013 - poster:** Sadier A, Lambert A, Peltier M, Laudet V and Pantalacci S Edar highlights the dynamics of molar row patterning
- Euro Evo Devo 2012 - poster:** Sadier A, Besson M, Chevret P, Ohlmann T, Pantalacci S and Laudet V Mosaic evolution through gain/loss of protein isoforms: the case of EDARADD involved in epithelial appendages development
- 2nd Joint Meeting of the British and French Societies for Developmental Biology 2011 - poster:** Sadier A, Lambert A, Laudet V and Pantalacci S Edar as a positive regulator of tooth patterning.
- Euro Evo Devo 2010 - poster:** Sadier A, Chevret P, Lambert A, Pantalacci S and Laudet V Evolution through gain/loss of protein isoforms: the case of EDARADD involved in epithelial appendages development

INVITED SEMINARS

- 2022** Developmental constraints shaping phenotypic diversification: bat eco-evo-devo **IGFL, France**
- 2021** Developmental constraints shaping phenotypic diversification: bat eco-evo-devo **CDB dept, UCL, UK**
- 2021** Developmental constraints shaping phenotypic diversification: bat eco-evo-devo **GEE dept, UCL, UK**
- 2021** Bat (teeth) as a new eco-evo-devo system for the evolution of developmental rules **ISEM Université de Montpellier, France**
- 2020** Bat teeth at the cusp: Finding new rules for the patterning of post-canine teeth in mammals, **McGill University, Montréal, Canada**
- 2019** Deciphering the rules that underlie species diversity: insight from African bats, **CBI, Yaoundé, Cameroon**
- 2019** Deciphering the rules that underlie species diversity: insight from Trinidadian bats, **University of St Augustine, Trinidad**

- 2016** Deciphering genomic and developmental mechanisms that underlie adaptive evolution in noctilionoid bats - **Indiana State University**
- 2013** Evo-devo of the Eda pathway, from the evolution of signaling to the establishment of shape - **University of Utah**

TEACHING EXPERIENCE AND MENTORING

Teaching

- 2021** **UCLA – MCB 160 Light microscopy, guest lecture** – “Deep DIVE into bi-photon imaging”
- 2020** **UCLA – MCB 160 Light microscopy, guest lecture** – “Deep DIVE into bi-photon imaging”
- 2019** **UCLA - Fiat Lux Class, invited lecture** – how to be a field scientist
- 2016** **UIUC – IB202 Anatomy and Physiology class**
- 2013** **COMENIUS project** - Visiting researcher in high school for the European project COMENIUS
http://ec.europa.eu/education/lifelong-learning-programme/comenius_en.htm
- 2009-2012** **ENS Lyon, France – Teaching fellowship “monitorat”**
- *Full lecture – Next generation sequencing, applications and evolution – master level
 - *Full lecture – Genomic technics and GMO
 - *In-class activity: hormone and pathology, evolution of nuclear receptors,
 - *Development and supervision of a whole teaching course for Bachelor and Master
 - *Lab activities: 2/3 weeks lab session full time
 - *Med school teaching - TA
- Total hours of teaching: 232 hours**

Mentoring

PhD students

- 2020** **Aidan Howenstine UCLA PhD student** – experiment, review writing
Dissertation project “The developmental networks behind limb development”
Mentoring. Fieldwork training and mentoring.
- 2019** **Clive Lau, UCLA PhD student** – fieldwork training and mentoring.
Lab mentoring.
- 2018** **Kathryn Stanchack UW, PhD student** – fieldwork training and mentoring.

Undergraduates and master students

- 2021** **Isaiah Milton** – postbac student – full supervision
- Since 2020** **Juan Mendez** – undergraduate, UCLA – full supervision
- 2017** **Natalie Nieves** – undergraduate, fieldwork in Puerto Rico, summer internship in the lab, co-author.
- 2017-2020** **Jacqueline Piekos, undergrad** – mentoring, full mentoring on lab project. Fieldwork training and mentoring.
- 2018-2020** **Michael Koger UCLA undergrad** - technics: morphometrics, molecular biology, project development, thesis writing, mentoring, **soon to be co-author**.
Thesis: « Developmental basis of cochlea evolution in bats »
- 2015-2017** Supervision et co-supervision of **10 undergrads - UIUC**.
Kun Yun Full supervision, **co-author** (Sadier et al. 2018), now PhD student at Mayo Clinic.
Elliot Berger Full supervision, now in med school, soon to be co-author.
- 2011** **Marc Besson** – Evo-devo of ectodermal appendages: *Edaradd* isoforms
Full supervision (master 1 student). Project, experiments, writing.

OUTREACH

Main outreach achievements

- 2021** **Coach for the iBiology “Share Your Research competition”** <https://www.ibiology.org/syr-competition/>
- Since 2019** **Co-host of the French science podcast: Podcast Science** <https://www.podcastscience.fm/>
(~10k listeners per episode, 50k per month)

2017 TEDx speaker at TEDx Chamonix - <https://www.youtube.com/watch?v=kFctP0vKL-4>

Interviews, other outreach events

2021 Interviewed for the **podcast RadioBioClub** – UC Merced (to be published)

2020 **Skype a scientist** – 3 classes “How to make a bat?”

2019 **Exploring Your Universe** – UCLA outreach event <https://www.exploringyouruniverse.org>

2019 Interviewed by **Podcast Science** about bats and bat research (in French):

<https://www.podcastscience.fm/emission/2019/04/15/podcast-science-370-chauve-souris/>

2019 Interviewed by the podcast **The Naked Scientists** about our eLife manuscript (see publications)

<https://www.thenakedscientists.com/articles/interviews/evolution-through-bats-eyes>

2017 **Urbana Library Bats**, these fascinating animals

2015-2017 **IGB genome day** - Animation and creation of an outreach module

2009-2013 **Fête de la science** – annual outreach science festival, Lyon, France

Twitter collaborative accounts

2017 La bio au labo @laBioauLabo (French equivalent of @realscientist)

2016 En direct du labo (French equivalent of @biotweeps)

Public lectures

2007 and 2009 General scientific popularization seminar at the Réserve Naturelle des Aiguilles Rouges, Chamonix

FIELDWORK

2022 **Belize** – field research in Lamanai, organized by Dr. Brock Felton and Dr. Nancy Simmons

2022 **Trinidad** – joint trip with a collaborator, local collaboration, sample collection

2019 **Cameroon** – trip co-organizer, field co-coordinator, responsible for exporting the samples, translator (French), bat capture, experiments, local reciprocal knowledge sharing and support

2019 **Trinidad** – trip organizer, including permit requests, exporting the samples, establishing local contact, support and reciprocal knowledge sharing

2019 **Dominican Republic** – trip organizer, including permit requests, exporting the samples, local contact, support and collaboration

2018 **Dominican Republic and Trinidad** – trip organizer, including permit requests, exporting the samples, local contact, support and collaboration

2017 **Puerto Rico, Dominican Republic and Trinidad** – field research, experiment, co-organizer

2017 **Belize** – field research in Lamanai, organized by Dr. Brock Felton and Dr. Nancy Simmons

2016 **Puerto Rico and Belize**

MUSEUM COLLECTIONS WORK

2018 Field museum, Chicago

2016 American Museum of Natural History – New York City

ACADEMIC ACTIVITIES AND SERVICE

October 2021: European Space Agency (ESA) Astronaut selection – Test phase 1 (1371/~23000 applicants), selection still ongoing https://www.esa.int/About_Us/Careers_at_ESA/ESA_Astronaut_Selection

Since 2021: Editorial Board Member, BMC Eco Evo <https://bmcecolvol.biomedcentral.com/>

2021: Topic board editor, Diversity journal diversity <https://www.mdpi.com/journal/diversity>

Since 2019: The Company of Biologists Prelighter, part of the @preLights community - See my prelights here: <https://prelights.biologists.com/profiles/aigverte/>

Society member: EuroEvoDevo, PanAmEvoDevo, NASBR societies, SDB and BCI (Bat Conservation International), Bat1k genome project

Symposium and conference organizer

2018 Evolution - S-24 Evolution and development in deep time, merging insights from paleontology and developmental biology **with Ryan Felice, Montpellier, France**

2013 – TMD - Organizing committee

Reviewer for academic journals – eLife, BMC Evolutionary Biology, Proceeding of the Royal Society B, Evolution, Plos One, ICB, System Biology

Representative of the PhD students (elected) for the doctoral school Integrative Molecular and Cellular Biology (including meeting organisation (2009-2013))

COLLABORATORS

Sharlene Santana (UW), Elizabeth Dumont (UC Merced), Vincent Laudet (OIST), Sophie Pantalacci (LBMC, ENS Lyon), Yann Gibert (UMC), Liliana Dávalos (Stony Brook University), Paul François (McGill), Andrew Krause (University of Oxford Mathematical Institute), Shane Campbell-Staton (UCLA), Neal Anthwal (King's college London), Nancy Simmons (AMNH), Robert Haase (Dresden), Aidan Couzens (UCLA), Guillaume Billet (MNHN, Paris), Helder Gomes-Rodrigues (MNHN, Paris), Omer Gokcumen (Buffalo University), Daisuke Koyabu (University of Tsukuba)

LANGUAGES

French (native), English (fluent), Spanish (beginner)

REFERENCES

Karen Sears – Professor, UCLA Chair, Dpt Ecology and Evolutionary Biology; ksears@ucla.edu

Sharlene Santana – Professor, University of Washington; ssantana@uw.edu

Sophie Pantalacci – Group leader, CR, LMBC, ENS Lyon; sophie.pantalacci@ens-lyon.fr

Vincent Laudet – Professor, OIST, Japan; vincent.laudet@oist.jp