

SAMUEL CARLEIAL FERNANDES

DOCTOR OF NATURAL SCIENCES

Positions

- 05/2023 - now **Project Manager** at EuroNatur Foundation, Radolfzell, Germany
01/2022 - 02/2023 **Paternity leave**
08/2017 - 12/2021 **Post-Doctoral Researcher**, Clinical and Neuropsychology, University of Konstanz, Germany

Education

- 04/2013 - 07/2017 **PhD in Biological Sciences (Dr. rer. nat.)**, University of Konstanz, Germany
in association with the Max Planck Research School for Organismal Biology (IMPRS), Germany
supervisors: Dr. Marc Stift and Dr. Mark van Kleunen
dissertation: *The early steps of plant mating system evolution*
grade: cum laude
- 01/2009 - 07/2011 **MSc. in Biological Sciences (Systematics)**, National Autonomous University of Mexico, Mexico
supervisor: Dr. Alfonso Delgado-Salinas
thesis: *Floral biology of Aeschynomene amorphoides*
grade: honorific mention
- 01/2002 - 02/2007 **BSc. & Lic. in Biological Sciences**, Federal University of Ceará, Brazil
supervisor: Dr. Christian Westerkamp
thesis: *Why are the nectaries in oiticica plants so large and oblique?*
grade: 8759 I.R.A. (Brazilian grade)

Awards & Grants

- 04/2021 **Research Seed Capital (RiSC)**, MKW Baden-Württemberg and University of Konstanz; 99,990.40 €
03/2019 **Young Scholar Fund (YSF)**, University of Konstanz; amount: 6,330 €
06/2018 **Independent Research Grant** (Zukunftskolleg), University of Konstanz; 4,740 €
2013 - 2017 **Stipend for doctoral studies** (CNPq and Max Planck Institute); 1,365 € per month (4 years)
2009 - 2011 **Stipend for master's degree** (CONACYT); 7,000 MXN per month (2 years)
2005 - 2006 **Stipend for bachelor's degree** (PIBIC/UFC); 300 R\$ per month (1 year)

Research

- 08/2017 - 12/2021 **Post-Doctoral Researcher**, Clinical and Neuropsychology, Elbert Lab, University of Konstanz, Germany
projects: *Narrative exposure therapy for traumatised offenders in North Kivu*, *Effect of narrative exposure therapy versus treatment as usual: a randomized controlled trial in Rio de Janeiro, Brazil*, amongst others
activities: data management and analysis, statistical modelling, student supervision, scientific research, project management, funding acquisition, international collaboration
- 12/2015 - 01/2016 **Volunteer**, HONKO Mangrove Conservation & Education, Madagascar
project: *Mangrove long-term monitoring and sustainable livelihoods* (2 weeks)
activities: data management, fieldwork data collection, maintenance of research station
- 03/2011 - 11/2011 **Technical Support Researcher (100%)** (REFLORA/CNPq) at the RON Herbarium, UNIR, Brazil
project: *Integration, qualification and provision of data related to botanical collections in the Brazilian Amazon*
activities: use of Brahms software, processing and management of botanical specimens, fieldwork

Teaching

12/2019 **Teaching** in course *Análise de dados em R* (16h), UFC, Brazil
10/2015 - 11/2015 **Teaching assistant** in course *Plant physiology* (60h), University of Konstanz, Germany
10/2014 - 11/2014 **Teaching assistant** in course *Plant physiology* (60h), University of Konstanz, Germany
03/2011 - 10/ 2011 **Assistant professor** at distance education in course *Biology*, UNIR, Brazil
04/2006 - 12/2006 **Teaching assistant** in courses *Botany* and *Plant anatomy and morphology*, UFC, Brazil

Training

Current **IBM Data Science Professional Certificate**, Coursera
12/2021 (1 day) **Enrichment Analysis**, Swiss Institute of Bioinformatics
10/2021 (5 days) **Epigenomics Data Analysis: from Bulk to Single Cell**, National Bioinformatics Infrastructure Sweden (NBIS)
04/2021 (4 days) **Structural Equation Modelling in R**, University of Cambridge
12/2020 (5 days) **Introduction to Analysis of Epigenetic Data**, UCDavis Bioinformatics Core
03/2017 - 09/2018 **Data Analyst Nanodegree**, Udacity
12/2014 | 12/2015 **Introduction to Geometric Morphometrics | Geometric Morphometrics in R**, Transmitting Science

Skills

Programming R (mostly) and proficient with python, bash, SQL, html
Software Microsoft Office, LaTeX, Inkscape, SPSS, Jupyter Notebooks, Tableau, Linux environment
Statistics common statistical methods, data modeling and evaluation (linear/mixed models), data visualization
Other scientific article and project writing, project management, vector image editing, version control

Languages

Portuguese	native	
English	fluent	TOEFL: 102/120 (year 2011)
German	proficient	Goethe Institute: B2.2 (year 2013)
Spanish	fluent	EPLE/UNAM: 830/1000 (year 2008)

General interests

Music (rock)
Nature (hiking, sightseeing)
Reading (news and books)
Sports (cycling, running, swimming)

Publications (Carleial S)

Schmitt S, Robjant K, Elbert T, Chibashimba A, Hoeffler A, Carleial S, Koebach A (2022). **Breaking the cycles of violence with narrative exposure: Development and feasibility of NETfacts, a community-based intervention for populations living under continuous threat.** PLoS ONE, 17(12): e0275421

Robjant K, et al. (2022). **NETfacts: An integrated intervention at the individual and collective level to treat communities affected by organized violence.** PNAS, 119(44): e2204698119

Carleial S, Soares M (2022). **The urgent and yet forgotten problems of current scientific and academic practice.** Arquivos de Ciências do Mar, ISSN 2526-7639

Carleial S, Nätt D, Unternaehrer E, Elbert T, Robjant K, Wilker S, Vukojevic V, Kolassa IT, Zeller AC, Koebach A (2021) **DNA methylation changes following Narrative Exposure Therapy in a randomized controlled trial with female former child soldiers.** Sci Rep, 11(1), 18493

Abreu L, et al. (2021) **Life with corona: increased gender differences in aggression and depression symptoms due to the COVID-19 pandemic burden in Germany,** Front Psychol, 12: 689396

Koebach A, Carleial S, Elbert T, Schmitt S, Robjant K (2021) **Treating trauma and aggression with Narrative Exposure Therapy in former child and adult soldiers: a randomized controlled trial in Eastern DR Congo,** J Consult Clin Psychol, 89(3), 143-155

Serpeloni F, Narrog JA, de Assis SG, Avanci JQ, Carleial S, Koebach A (2021) **Narrative Exposure Therapy versus treatment as usual in a sample of trauma survivors who live under ongoing threat of violence in Rio de Janeiro, Brazil: study protocol for a randomised controlled trial.** Trials, 22(1), 1-10

Unternaehrer E, Carleial S, Koebach A, Zeller A, Meinlschmidt G, Elbert T (2020) **Association between BDNF DNA methylation and symptom improvement following cognitive-behavioral therapy in stress-related mental disorders,** Psychoneuroendocrinology, 119: 105009

Robjant K, Schmitt S, Chibashimba A, Carleial S, Elbert T, Koebach A (2020) **Trauma, aggression and post conflict perpetration of community violence in female former child soldiers – a study in Eastern DR Congo.** Front Psychiatry, 11:1-10

Robjant K, Koebach A, Schmitt S, Chibashimba A, Carleial S, Elbert T (2019) **The treatment of posttraumatic stress symptoms and aggression in female former child soldiers using adapted Narrative Exposure therapy – a RCT in eastern democratic republic of Congo.** Behavior Res Ther, 123: 103482

Carleial S, Maurel N, van Kleunen M, Stift M (2018) **Oviposition by the Mountain Alcon Blue butterfly increases with host plant flower number and host ant abundance.** Basic Appl Ecol, 28:87-96

Carleial S, van Kleunen M, Stift M (2017) **Relatively weak inbreeding depression in selfing but also outcrossing populations of North American Arabidopsis lyrata,** J Evol Biol, 30: 1994-2004

Carleial S, van Kleunen M, Stift M (2017) **Small reductions in corolla size and pollen:ovule ratio, but no changes in flower shape in selfing populations of the North American Arabidopsis lyrata,** Oecologia, 401-413

Tedder A, Carleial S, Golebiewska M, Kappel C, Shimizu KK, Stift M (2015) **Evolution of the selfing syndrome in Arabis alpina (Brassicaceae),** PLoS ONE, 10(6): e0126618

Carleial S, Delgado-Salinas A, Domínguez CA, Terrazas T (2015) **Reflexed flowers in Aeschynomene amorphoides (Fabaceae: Faboideae): a mechanism promoting pollination specialization?** Bot J Linn Soc, 177(4): 657-666

Carleial S, Bigio NC (2014) **What survived from the PLANAFLORO Project: angiosperms of Rondônia State, Brazil,** Checklist, 10(1): 33-45

Peer-reviews

Am. J. Bot., AoB Plants, Aust. J. Bot., Check List, Epigenomics, PeerJ