SAMUEL CARLEIAL FERNANDES

DOCTOR OF NATURAL SCIENCES

birth: 26/07/1984, Fortaleza, Brazil
nationality: Brazilian
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Objective

I have always been strongly keen to learn about the world and acquire knowledge. Due to my Brazilian roots, I decided to become a biologist, so that I could understand the natural world and make important discoveries. After several years of experience, however, I noticed that the human component has unquestionably a crucial part in my plan of being a scientist. Today, I want to engage in work that I am passionate about, but also that is meaningful and has an impact in society.

Current position

08/2017 - now **Post-Doctoral Researcher**, Clinical and Neuropsychology, Elbert Lab, University of Konstanz, Germany
projects: *Narrative Exposure Therapy for traumatized offenders in North Kivu*, *Effect of Narrative Exposure Therapy versus treatment as usual: a randomized controlled trial in Rio de Janeiro, Brazil*, among other
activities: data management and analysis, statistical modelling, student supervision, scientific research, project management, funding acquisition, international collaboration

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 notation)

Awards & Grants

04/2021 **Research Seed Capital** (RiSC), MWK 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 experience

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** (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 experience

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

04/2021 **Structural Equation Modelling in R**, University of Cambridge
12/2020 **Introduction to Analysis of Epigenetic Data**, UCDavis Bioinformatics Core
03/2017 - 09/2018 **Data Analyst Nanodegree**, Udacity
12/2014 | 12/2015 I**ntroduction to Geometric Morphometrics** | **Geometric Morphometrics in R**, Transmitting Science

Skills

Analyses	common statistical methods, parametric and non-parametric tests, data visualization
Programming	R (mostly) and proficient with python, bash, SQL, html
Software	Microsoft Office, LaTeX, Inkscape, SPSS, Jupyter Notebooks, Tableau
Other	cluster computing, vector image editing and version control

General interests

Nature (hiking, sightseeing), sports (cycling, climbing, swimming), reading (news and books), music (rock).

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)

Publications

Abreu L, Koebach A, Botía OMD, Carleial S, Hoeffler A, Stojez W, Freudenreich H, Justino P, Brück T (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

accepted

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

in review

Carleial, S., Hoeffler, A., Koebach, A., Robjant, K., Schmitt, S. **Mental health and everyday violence in the Eastern DRC**

Schmitt S, Robjant K, Elbert T, Chibashimba A, Hoeffler A, Carleial S, Koebach A (2021) **Breaking the cycles of violence with narrative exposure: development and feasibility of a community-based intervention for populations living under continuous threat**

Peer-reviews

AoB Plants, Australian Journal of Botany, Checklist, PeerJ