

CARLEIAL (FERNANDES), SAMUEL

DOCTOR OF NATURAL SCIENCES

Has a research interest in trauma and human mental health, particularly in regard to its biological component. Previously dedicated himself to basic research in plant systematics, ecology and evolution. He is open to learning new skills, and he is passionate about research, programming, data analysis and statistical methods used to answer scientific questions

Current position

2017 – now **(Post-doctoral fellow) Research Assistant** at the Prof. Elbert AG, University of Konstanz
Active in the project "Narrative Exposure Therapy for traumatized offenders in North Kivu", "Effect of Narrative Exposure Therapy versus treatment as usual in a sample of trauma survivors who live under ongoing threat: a randomized controlled trial in Rio de Janeiro, Brazil", among other

Graduate & post-graduate studies

2013 – 2017 **PhD in Biological Sciences (Dr. rer. nat.)** - University of Konstanz
associated with The Max Planck Research School (IMPRS) for Organismal Biology
Supervisors: Dr. Marc Stiff and Dr. Mark van Kleunen
Thesis: The early steps of plant mating system evolution

2008 – 2010 **MSc. in Biological Sciences** - National Autonomous University of Mexico
Supervisor: Dr. Alfonso Delgado-Salinas
Short thesis title: Biología floral de *Aeschynomene amorphoides*

2002 – 2006 **BSc. in Biological Sciences** - Federal University of Ceará (UFC, Brazil)
Supervisor: Dr. Christian Westerkamp
Short thesis title: Por quê o nectário é tão grande e oblíquo em oiticica?

Awards & Grants

2021 Research Seed Capital (RISC), University of Konstanz (**99,990.40 €**)

2019 Young Scholar Fund (YSF), University of Konstanz (**6,330 €**)

2018 Independent Research Grant, Zukunftscolleg, University of Konstanz (**4,740 €**)

2013 – 2017 Stipend for doctoral studies (CNPq and Max Planck Institute; **1,365 €/month**)

2008 – 2010 Stipend for Master' studies (CONACYT; **7,000 MXN/month**)

2005 – 2006 Stipend for Bachelor's studies (PIBIC/UFC; **300 R\$/month**)

Additional training

2020 **Introduction to Analysis of Epigenetic Data** – UCDavis Bioinformatics Core
2017 – 2018 **Data Analyst Nanodegree** – Udacity

Research experience

2015 – 2016 **Volunteer** at HONKO Mangrove Conservation & Education, Madagascar
Project: Mangrove long-term monitoring and sustainable livelihoods (2 weeks)
2011 – 2011 **Technical support researcher** at the RON Herbarium, UNIR, Brazil
Project: Integration, qualification and provision of data related to botanical
collections in the Brazilian Amazon (REFLORA/CNPq)
2002 – 2006 **Volunteer** at the Plant Anatomy and Morphology Lab, UFC, Brazil

Teaching experience

2019 Teaching in course “Análise de dados em R”, Labomar, UFC, Brazil
2015 – 2016 Teaching assistant, “Plant physiology” compact course, University of Konstanz
2011 – 2011 Assistant professor at distance education, “Biology”, UNIR, Brazil
2005 – 2006 Teaching assistant, “Plant anatomy and morphology” course, UFC, Brazil

Languages

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

Software skills

Programming in R, python, bash, html
Use of Microsoft Office, LaTeX, Inkscape, version control, cluster computing

Peer-Reviews for

AoB Plants, Australian Journal of Botany, PeerJ

Publications

- 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, Meinschmidt 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, Stiff 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, Stiff 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, Stiff 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, Stiff 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

Publications in review

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